

**Technical Note
EMA # 387**

**HYDROLOGIC CONDITIONS OF LAKE OKEECHOBEE
(November 1, 1999 to June 30, 2000)**

December 2000

by

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EXECUTIVE SUMMARY

On April 25, 2000, the South Florida Water Management District's Governing Board adopted the Shared Adversity Plan in its resolution concerning immediate, short-term actions to lower Lake Okeechobee water levels. In the resolution, it is stated that "there is an imminent need to lower water levels in Lake Okeechobee for protection of the public health, safety and welfare, and the ecological health of Lake Okeechobee." The Shared Adversity Plan provided outflow rates from the Lake to lower the level to 13 ft NGVD by June 1, 2000 and hold it there for 8 weeks. This report presents relevant hydrologic information on Lake Okeechobee prior to and during the implementation of the Shared Adversity Plan.

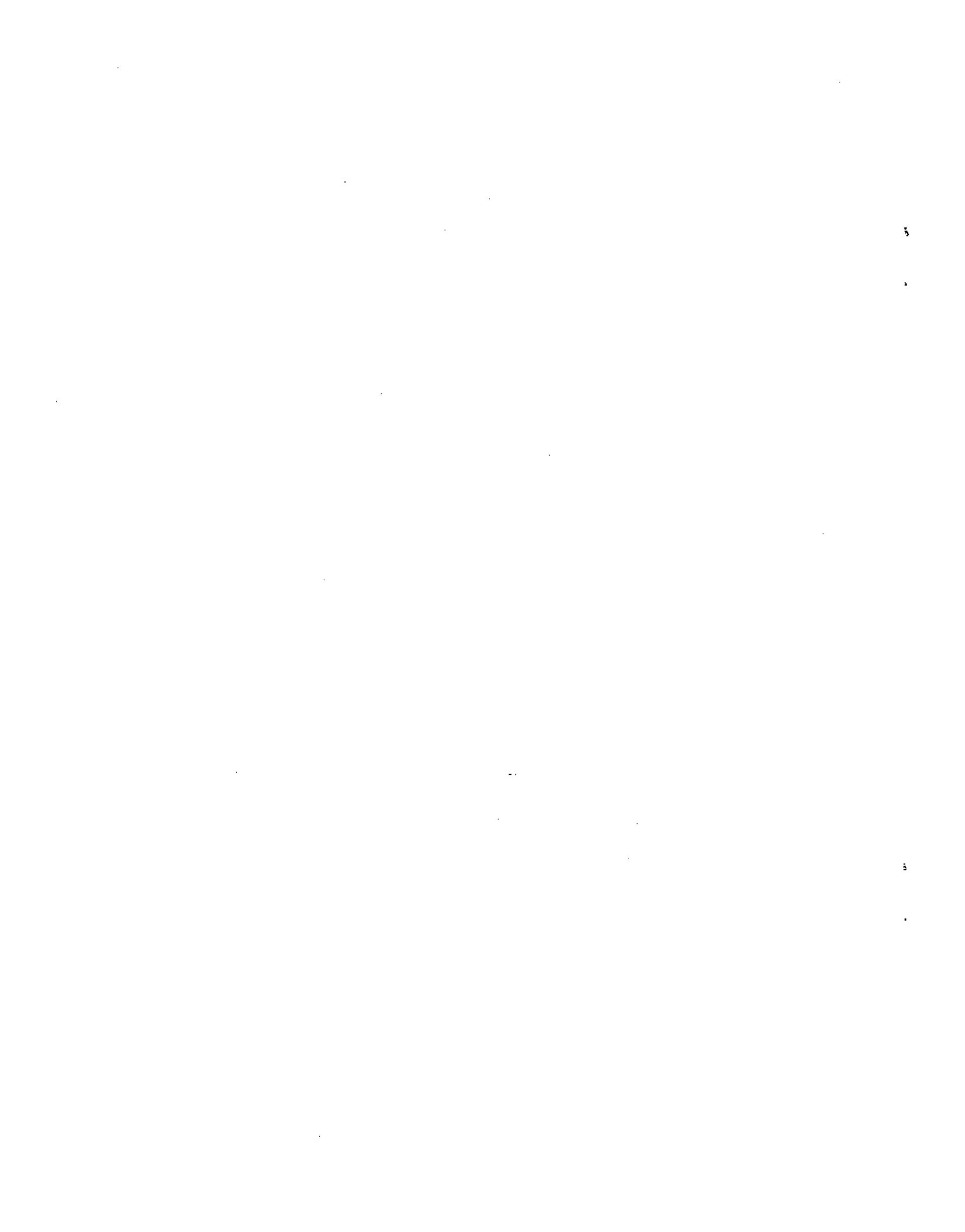
Rainfall on Lake Okeechobee was below historical average for the period from November 1999 to June 2000 except for April 2000. The higher than expected rainfall in April did not compensate for the deficit over this 8-month period. May 2000 was extremely dry; the lake received only 8.4 percent of the historical average rainfall for this month. For the 8-month period examined, rainfall was 9.52 inches below average. Based on initial rainfall reports, the drainage area of Lake Okeechobee was drier than normal as indicated by the reduction in inflow to the lake. Evaporation was 9.0 percent greater than expected for November to June. An additional 3.13 inches of water above the previously reported average was lost from the lake during this period due to evaporation. For the study period, the total rainfall was 13.70 inches and evaporation losses were estimated at 33.9 inches. From April 25 to June 30, 2000, rainfall amounted to 5.15 inches and evaporation was 14.1 inches.

Inflow to the lake from November 1999 to June 2000 was 507,644 acre-feet while outflow was 1,815,695 acre-feet. The highest monthly inflow was in April (113,609 acre-feet) and the largest outflow was in May (523,386 acre-feet). Inflows to the lake were lower for March, May and June. Between April 25 and June 30, 2000, inflows to the lake were 48,328 ac-ft and outflows were 784,386 ac-ft. (The date, June 30, 2000, was selected for this report based on the availability of quality assured data). Of the 784,386 ac-ft that was released from the lake, an estimated 350,531 ac-ft was used in the basins and 433,855 ac-ft was released at outlet structures in the EAA, on the Caloosahatchee River and the St. Lucie Canal. The combination of lower than expected rainfall, increased evaporation, lower inflows to the lake and releases from the lake resulted in the lake stage receding from 17.66 ft NGVD at the beginning of November 1999 to 11.90 ft NGVD at the end of June 2000. The change in stage from April 25, 2000 to June 30, 2000 was 2.99 ft.



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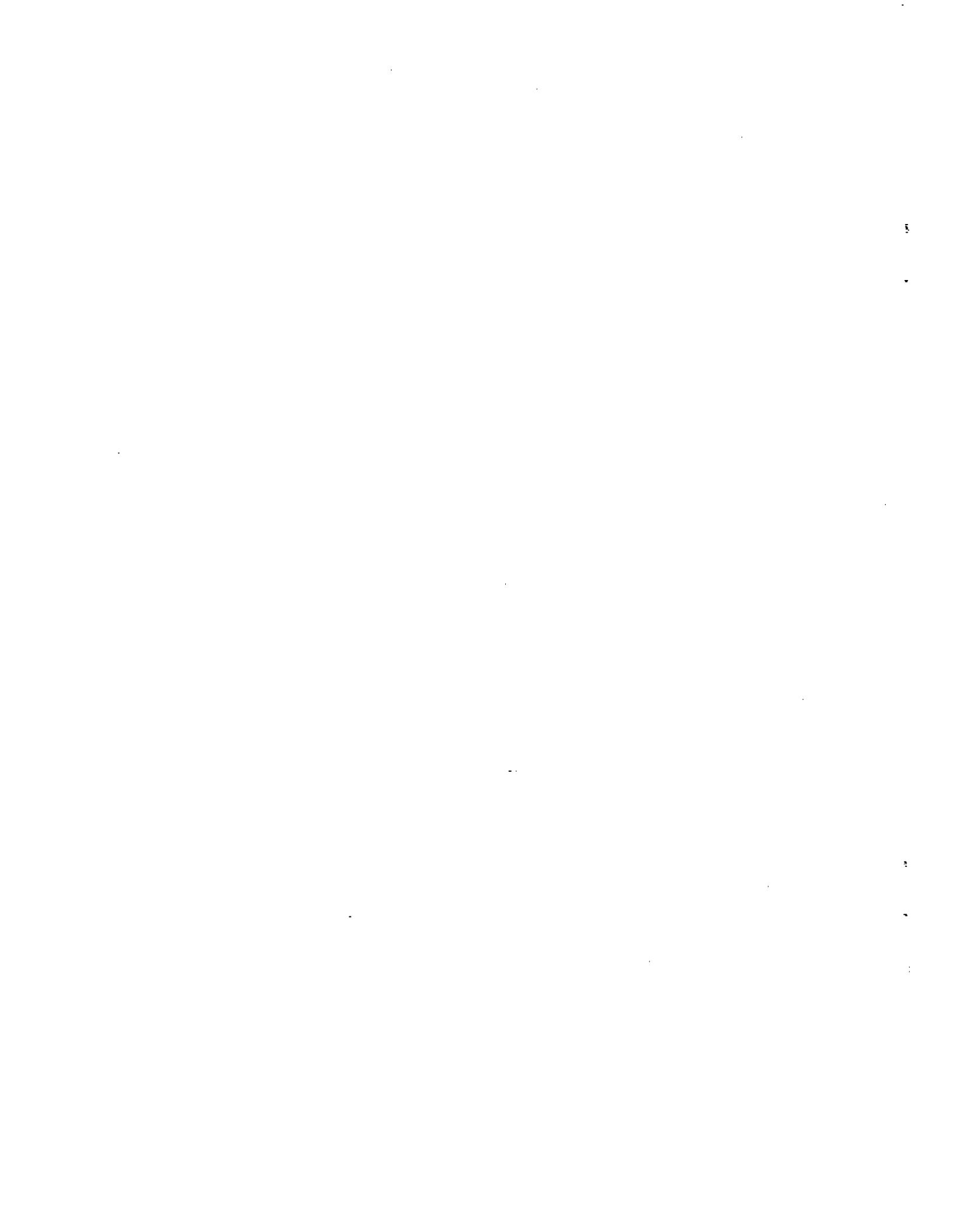
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INTRODUCTION

Lake Okeechobee is the second largest freshwater lake completely contained in the United States. It is located at 27° latitude and 81° longitude in subtropical South Florida. It has a surface area of 669 square miles and a mean depth of 8.86 ft (Jin et al., 1998). Historically, Lake Okeechobee has attained a maximum water surface elevation of 18.76 ft NGVD (November 2, 1947) and a minimum water surface elevation of 9.77 ft NGVD (July 30, 1981) with a mean of 14.43 ft NGVD. The lake stage is regulated based on operational schedules for high water level and low water level conditions (Hall, 1991, 1992).

The highest lake stage in recent months was 17.80 ft NGVD on October 25, 1999, which was observed right after Hurricane Irene. At the beginning of the 1999/2000 dry season (November 1, 1999), the lake stage was at 17.66 ft NGVD. Since this date, the water level in the lake has receded except for few days in early April 2000. On April 25, 2000, the South Florida Water Management District's Governing Board adopted the Shared Adversity Plan in its resolution concerning immediate, short-term actions to lower Lake Okeechobee water levels (Appendix A). In the resolution, it is stated that "there is an imminent need to lower water levels in Lake Okeechobee for protection of the public health, safety and welfare, and the ecological health of Lake Okeechobee." The Shared Adversity Plan provided outflow rates from the Lake to lower the level to 13 ft NGVD by June 1, 2000 and hold it there for 8 weeks (Appendix A). At the start of the recession, the lake stage was 14.89 ft NGVD. Water was released from the lake through lake outflow structures. During the same period, drier than normal meteorological conditions prevailed. The lake attained 13 ft NGVD water level on May 22, 2000. By June 30, 2000, the water surface elevation of the lake was 11.90 ft NGVD. This report summarizes the hydrologic conditions of the lake between November 1, 1999 and June 30, 2000. The date, June 30, 2000, was selected for use in this report based on the availability of quality assured data. This report presents relevant hydrologic information on Lake Okeechobee prior to and during the implementation of the Shared Adversity Plan.

HYDROLOGY

Rainfall

The rainfall analysis was performed using data from 16 rain gages located in and around Lake Okeechobee. The location of these stations is shown in **Figure 1**. The corresponding database keys and station descriptions from the District's corporate database (DBHYDRO) are presented in **Table 1**. Daily areal rainfall was determined from daily values of rainfall for each gage using an algorithm developed by Ali (Ali and Abtew, 1999) and modified by the authors for this report. The algorithm uses a 0.5-mile-by-0.5-mile square grid superimposed over the extent of the lake to compute an area-weighted, average rainfall for the

lake. The method produces results that are very close to a Theissen polygon method and is computationally less intensive. **Figure 2** shows the average daily rainfall for Lake Okeechobee from November 1, 1999 to June 30, 2000. The daily rainfall data used for **Figure 2** is shown in **Table B-1** in Appendix B.

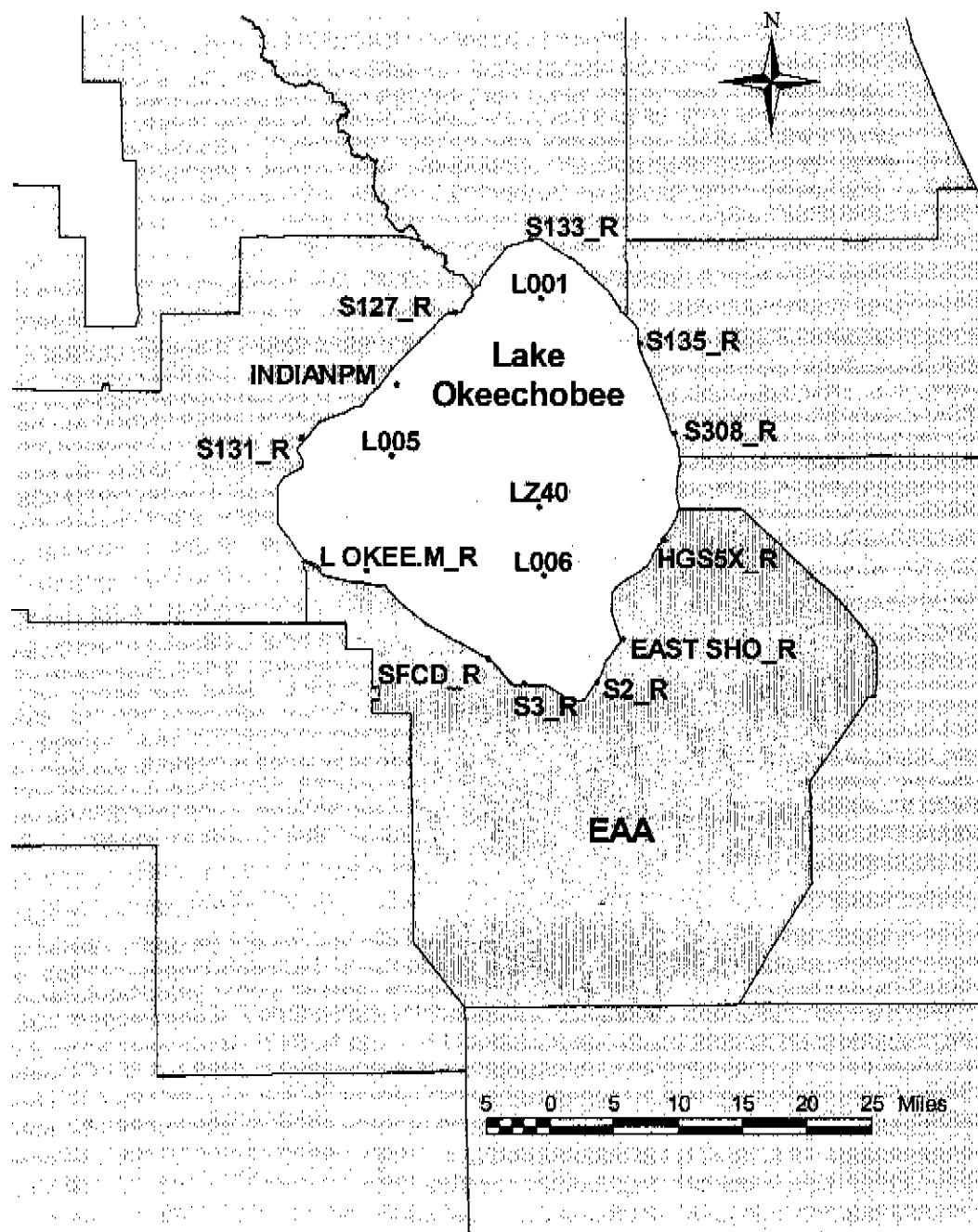
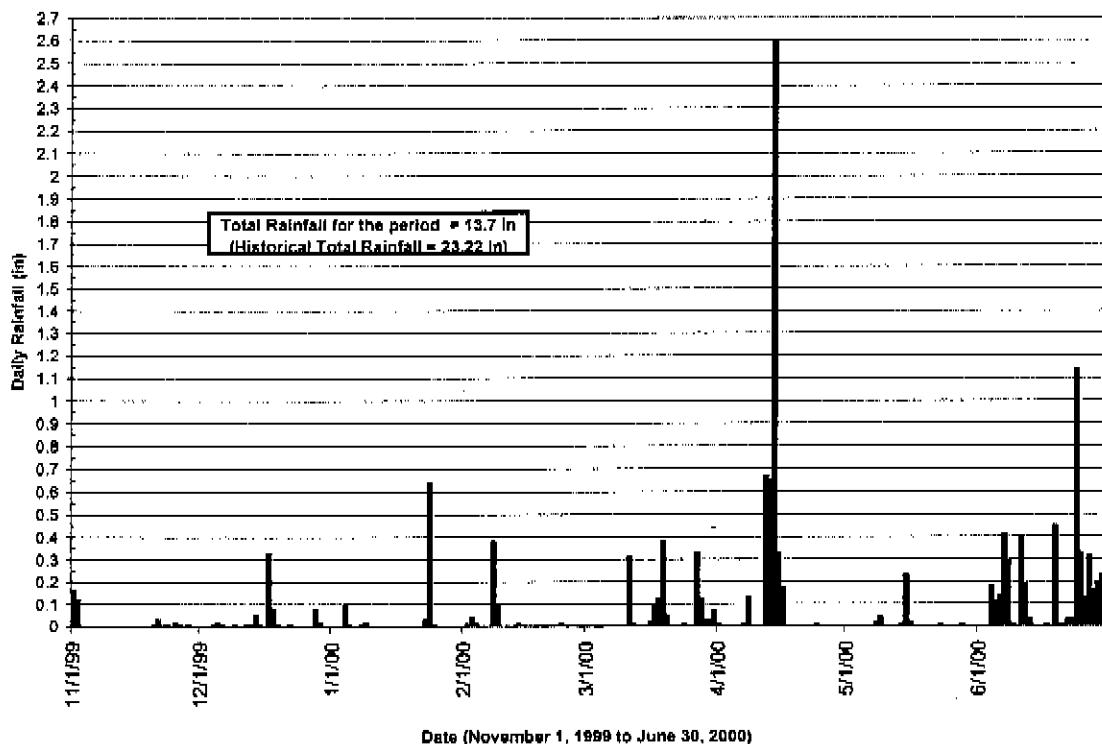


Figure 1. Rain Gage Locations for Lake Okeechobee.

Table 1. Rain Gage DB Keys and Station Descriptions.

DBKEY	Station	Station Description
05835	EAST SHO_R	EAST SHORE
12737	HGS5X_R	HGS-5 HURR. GATE ON LAKE OKEECHOBEE TO W.P.B. CANAL
JO085	INDIANPM	INDIAN PRAIRIE MARSH
JO083	L_OKEE.M_R	GW-203 RAIN/WELL ON LAKE OKEECHOBEE MARSH NEAR S-77
16021	L001	LAKE OKEECHOBEE TOWER NORTH
12515	L005	LAKE OKEECHOBEE TOWER WEST (#5)
12524	L006	LAKE OKEECHOBEE TOWER SOUTH (#6)
13081	LZ40	LZ40 WEATHER STATION ON LAKE OKEECHOBEE
16284	S127_R	S-127 (PUMP & SPILLWAY & LOCK) N.W. SHORE LAKE OKEECHOBEE
F9544	S131_R	S-131
16576	S133_R	S-133
16283	S135_R	S-135
K8665	S2_R	S-2
K8622	S3_R	MIAMI CANAL AT HGS-3 AND S-3 AT LAKE HARBOR, FLA
16289	S308_R	PORT MAYACA LOCK RAINFALL (CORPS OF ENGINEERS)
05965	SFCD_R	SOUTH FLA. CONSERVANCY DIST



The monthly average rainfall amounts for Lake Okeechobee are summarized in **Table 2**. These mean monthly rainfall amounts are compared with their respective historical monthly average values (**Figure 3**). The historical monthly average values were for the Lake Okeechobee rain area used by the South Florida Water Management District (Ali and Abtew, 1999). The rain area includes the lake, the Fisheating Creek, the Taylor Creek, the Nubbin Slough and several other smaller watersheds. As shown in **Figure 3**, monthly rainfall amounts were below their historical averages except for April 2000. Rainfall for April 2000 was significantly above the historic average (4.58 inches versus 2.38 inches). Typically, the transition from dry to wet season occurs during May. May 2000 was extremely dry receiving only 0.34 inches of rain, far lower than the average 4.03 inches. A deficit of this magnitude has a statistically based return period of not less than 100 years. In fact, it was drier than any May in the period of record used by Ali and Abtew (1999) for the Lake Okeechobee rain area. Their study was based on a 61-year period of record from 1929 to 1995. The lowest reported rainfall in May for the Lake Okeechobee rain area was 0.39 inches (Ali and Abtew, 1999). May 2000 was followed by another drier than expected month. The total rainfall for June 2000 was 4.81 inches. A historical average of 6.92 inches of rainfall has been observed for the month of June in the Lake Okeechobee rain area.

Table 2. Summary of Monthly Hydrology of Lake Okeechobee.

Year	Month	Rain (in)	Evaporation (in)	Inflow (ac-ft)	Outflow (ac-ft)	Average Stage (ft NGVD)
1999	Nov	0.37	3.24	105,437	340,173	17.28
1999	Dec	0.66	2.94	68,681	250,692	16.47
2000	Jan	0.81	3.56	81,109	173,754	15.90
2000	Feb	0.56	4.10	73,577	51,786	15.63
2000	Mar	1.57	5.27	24,859	114,218	15.22
2000	Apr	4.58	6.02	113,609	211,385	14.85
2000	May	0.34	6.81	10,845	523,386	13.41
2000	June	4.81	5.94	29,527	150,301	12.09
Total		13.70	37.88	507,644	1,815,695	

Evaporation

The average evaporation rate for Lake Okeechobee has been estimated as 52 inches per year based on analysis and model application to meteorological data collected over the lake from 1993 to 1997 (Abtew, 1999). Evaporation increases with clear sky, high temperature, low humidity, high wind speed and dry surroundings. Evaporation for Lake Okeechobee for this report was estimated from weather data collected on the lake at station L006, applying a radiation based model (Abtew, 1999). The resulting daily estimates of evaporation are shown in **Table B-2** in Appendix B. For the period from November 1, 1999 to June 30, 2000, 37.88 inches (3.16 ft) of water was lost to evaporation. This was an increase of 3.13 inches (9.0 percent) over the average evaporation for this time period. The maximum daily evaporation of 0.25 inches for the study period is equivalent to an outflow rate of 4583 cubic feet per second (cfs) at a lake stage of 14.0 ft NGVD. The average daily evaporation

rate of 0.156 inches for the study period is equivalent to an outflow rate of 2853 cfs at the same stage. A summary of monthly evaporation is shown in **Table 2** and daily evaporation is depicted in **Figure 4**.

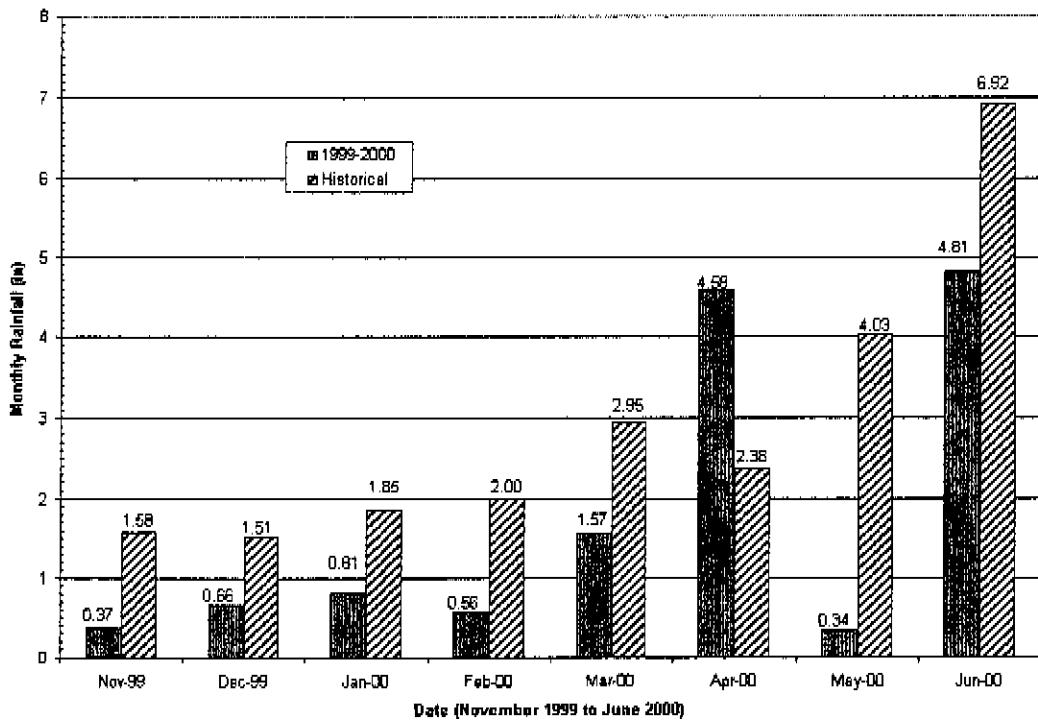


Figure 3. Monthly Average Rainfall for Lake Okeechobee.

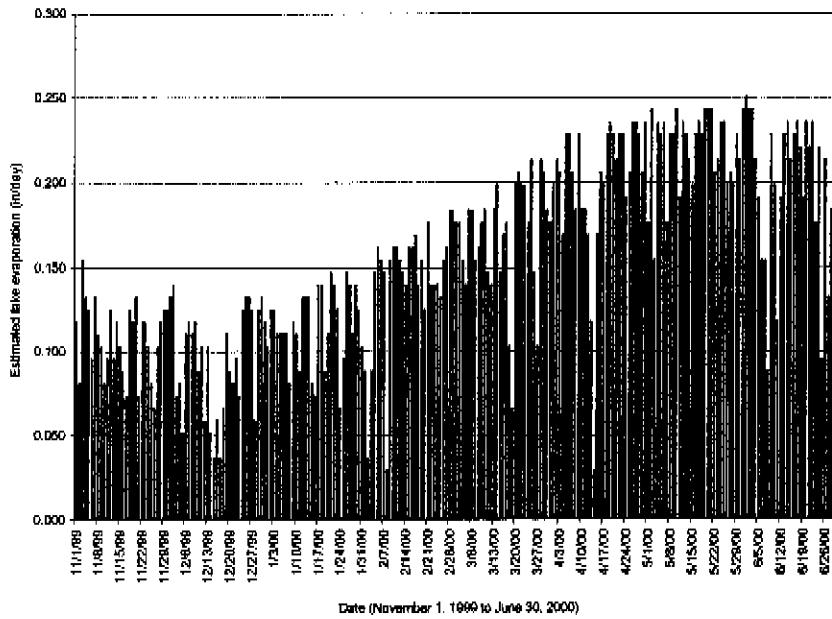


Figure 4. Daily Evaporation for Lake Okeechobee.

Stage

Lake Okeechobee water level declined by 5.76 ft (17.66 ft NGVD to 11.90 ft NGVD) from November 1, 1999 to June 30, 2000. The average stage during this period was 15.11 ft NGVD. When the decision was made to implement the lake recession based on the Shared Adversity Plan, the stage on April 25 was 14.89 ft NGVD. Daily average values of stage are provided in **Table B-3** in Appendix B. Average monthly stage is shown in **Table 2**. The lake stage and surface area for each date (**Figure 5**) shows that the decline in stage is accelerated below 14 ft NGVD (436,000 acres area) for the same rate of discharge. The lake surface area curve for each observed stage was developed from the 1962 U.S. Army Corps of Engineers Lake Okeechobee stage-area-capacity table (Corps of Engineers, 1962).

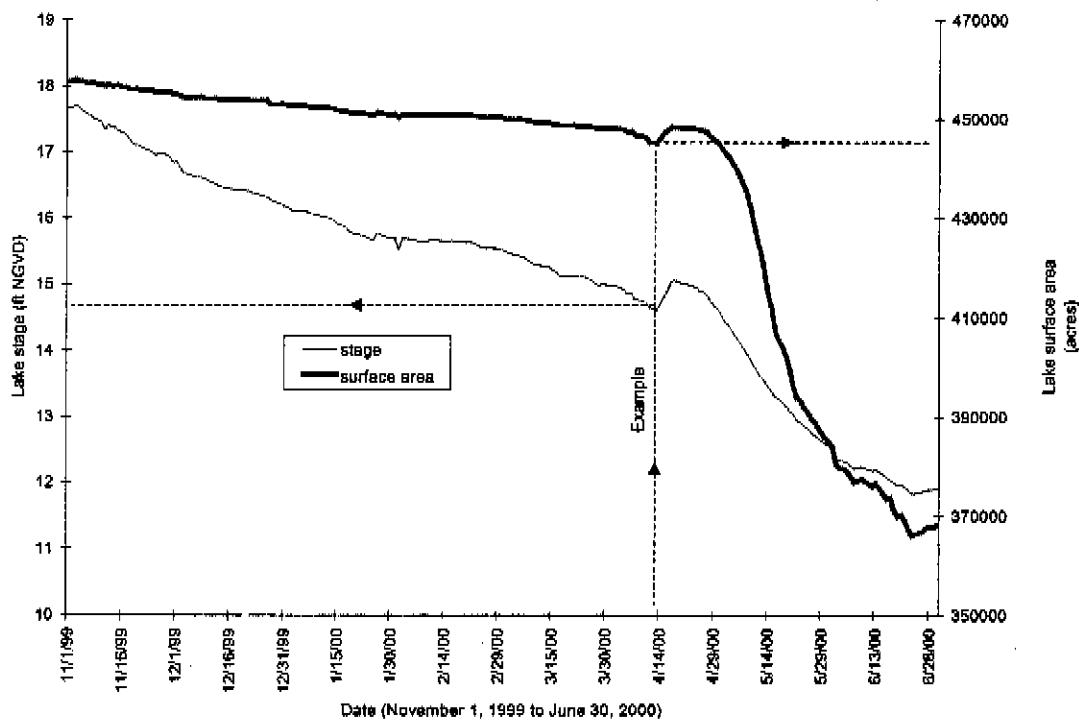


Figure 5. Daily Water Level and Surface Area for Lake Okeechobee.

Inflows and Outflows

Inflow and outflow structure locations around Lake Okeechobee are shown in **Figure 6**. This Figure also shows the Everglades Agricultural Area (EAA) flow control structures that were to calculate daily estimated supplemental water use for the West Palm Beach, North New River, Hillsboro and West Palm Beach Canals. Inflows to the lake totaled of 507,644 ac-ft for the period November 1, 1999 to June 30, 2000. Inflows to the lake were lower for March, May and June. April had the largest inflow. Outflows from the lake totaled 1,815,695 ac-ft of which 784,386 ac-ft were discharged between April 25 and June 30, 2000. **Figures 7** and **8** depict daily inflows and outflows, respectively. The daily flow data for each structure

that was used in this study is presented in **Tables B-4, B-5, B-6, B-7 and B-8** in Appendix B. Monthly outflow through each structure is shown in **Table 3**. **Table 4** presents a hydrologic summary for Lake Okeechobee from April 25, 2000 to June 30, 2000.

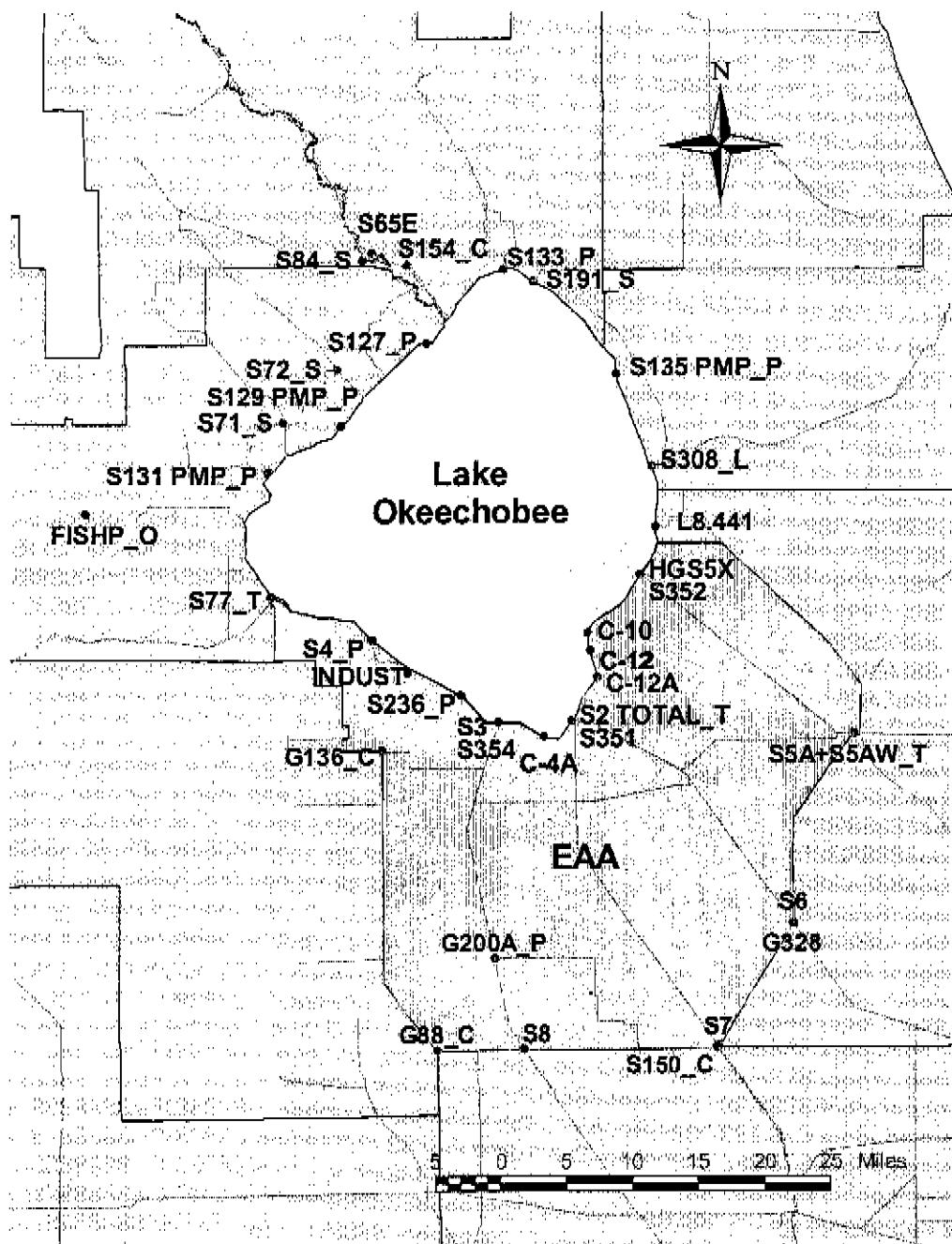


Figure 6. Flow Monitoring Stations for Lake Okeechobee and the EAA.

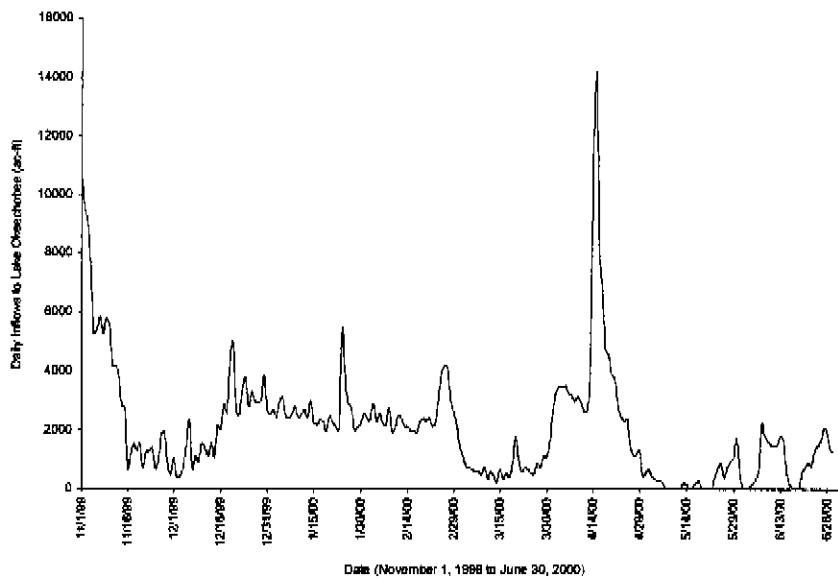


Figure 7. Daily Inflows to Lake Okeechobee.

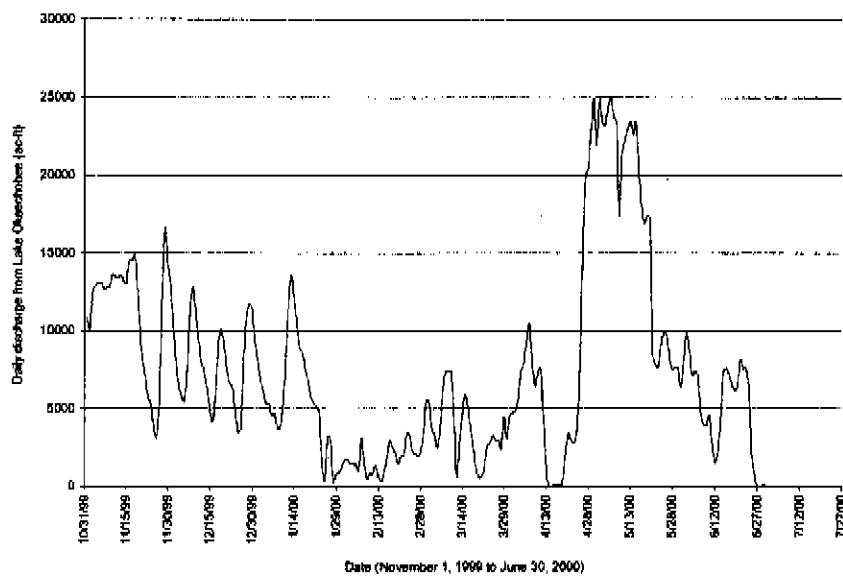


Figure 8. Daily Outflows from Lake Okeechobee.

Table 3. Monthly Outflows from Lake Okeechobee through Each Structure.

Year	Month	S354 (ac-ft)	S351 (ac-ft)	S352 (ac-ft)	S308 (ac-ft)	S77 (ac-ft)	INDSTR (ac-ft)	L8(C10A) (ac-ft)
1999	Nov	3551	6833	13996	89323	214341	1802	10327
1999	Dec	2327	30121	41860	53007	100643	1580	21154
2000	Jan	11857	31435	33571	25661	47033	1739	22459
2000	Feb	6478	5845	10386	9650	8864	1009	9555
2000	Mar	23451	26995	15874	5161	29207	4087	9442
2000	Apr	21229	40120	11677	38754	88476	6878	4251
2000	May	65642	84856	44081	107698	200308	14539	6262
2000	June	27303	58009	25397	2254	26922	8090	2326
Total		161839	284216	196841	331507	715794	39724	85775

Table 4. Hydrologic Summary for Lake Okeechobee - April 25, 2000 to June 30, 2000.

	April 2000 (25 th -30 th)	May	June	Total
Rain (in)	0.00	0.34	4.81	5.15
Evaporation (in)	1.35	6.81	5.94	14.10
Inflow (ac-ft)	7,957	10,844	29,527	48,328
Outflow (ac-ft)	110,699	523,386	150,301	784,386

Estimated Supplemental Water

Supplemental water in the Everglades Agricultural Area (EAA) from the West Palm Beach, Hillsboro, North New River and Miami Canals were estimated based on the equations published by Abtew and Khanal (1993). The same basic equations are used in the EAA Rules, BMP Makeup Water Model and load computation models to compute runoff from the EAA. Supplemental water for the St. Lucie and Caloosahatchee basins was calculated in a manner similar to the method used for the EAA. The equation for each basin is:

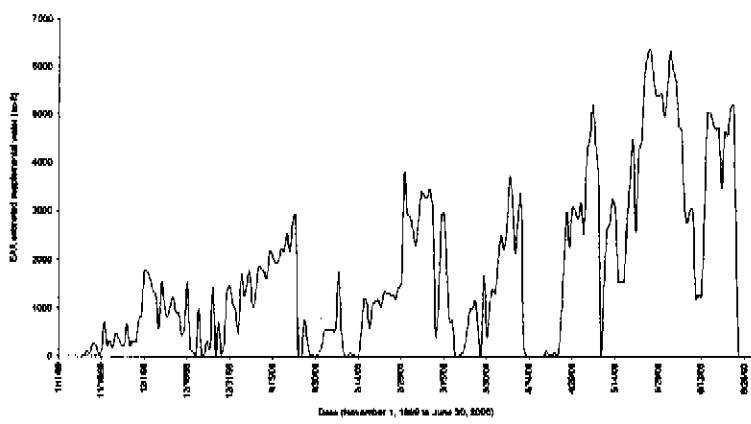
$$\text{St. Lucie Supplemental Water} = \text{maximum}(0, S308_L - S80_T) \quad (1)$$

$$\text{Caloosahatchee Supplemental Water} = \text{maximum}(0, S77_T - S79_S) \quad (2)$$

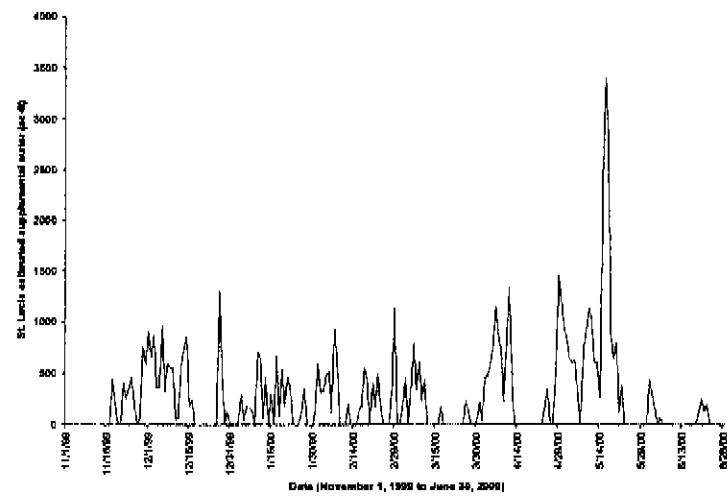
Table 5 shows the estimated supplemental water withdrawn in the EAA, L8, Industrial Canal, St. Lucie and Caloosahatchee basins. It also presents the volume of water from Lake Okeechobee that passed through the EAA, St. Lucie and Caloosahatchee basins. **Figure 9a, b and c** shows the daily estimated supplemental water for each of these basins. **Figure 10** shows rainfall, evaporation, inflow, outflow and supplemental water use for each month from April 25 through June 30, 2000.

Table 5. Lake Okeechobee Estimated Supplemental Water and Flow-through Volumes by Major Basin - April 25, 2000 to June 30, 2000

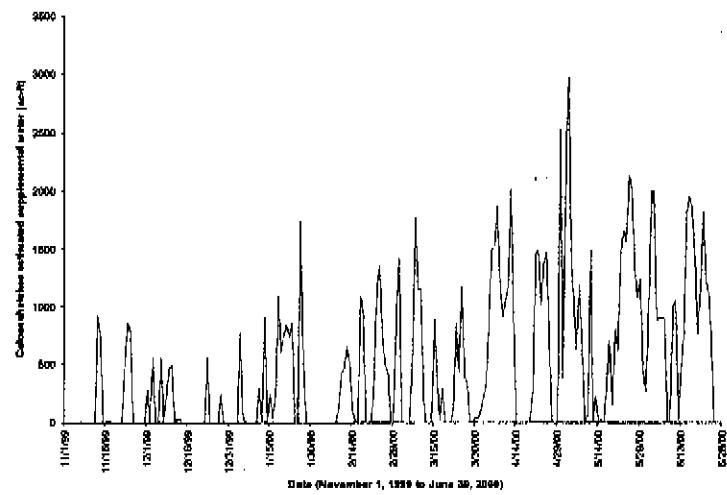
	April (25 th -30 th)	May	June	Total
Supplemental Water (ac-ft)				
EAA	13,838	115,720	100,918	230,476
L8 Canal	2,051	6,262	2,326	10,639
Industrial Canal	2,566	14,539	8,090	25,195
St. Lucie	3,588	20,611	1,617	25,816
Caloosahatchee	4,713	28,213	25,479	58,405
Total	26,756	185,345	138,430	350,531
Flow-through (ac-ft)				
EAA	15,742	78,859	9,791	104,392
St. Lucie	23,604	87,087	637	111,328
Caloosahatchee	44,597	172,095	1,443	218,135
Total	83,943	338,041	11,871	433,855



(a)



(b)



(c)

Figure 9. Daily Estimated Supplemental Water in (a) the Everglades Agricultural Area, (b) the St. Lucie Basin and (c) the Caloosahatchee River Basin.

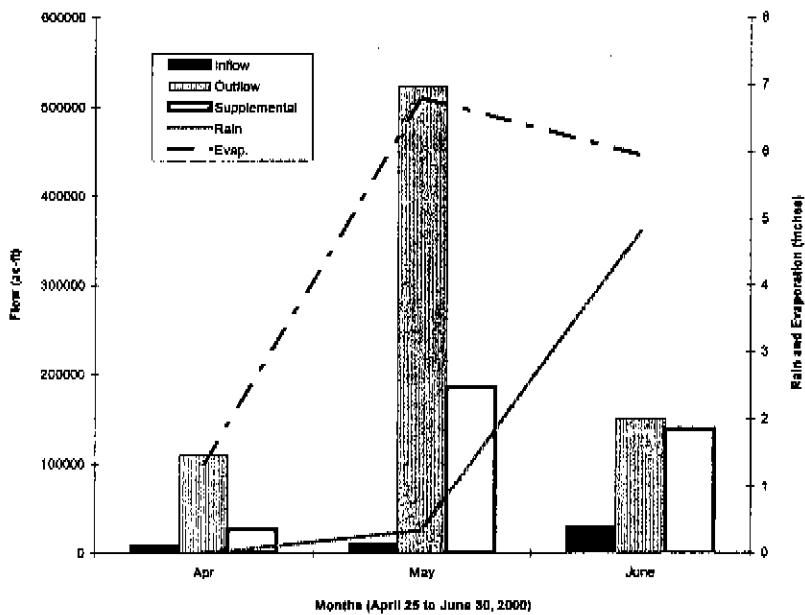


Figure 10. Rainfall, Evaporation, Inflow, Outflow and Supplemental Water.

SUMMARY AND CONCLUSIONS

With the exception of April 2000, rainfall on Lake Okeechobee was below historical average rainfall. Higher than expected rainfall in April did not compensate for the deficit over this 8-month period. May 2000 was extremely dry. The lake received only 8.4 percent of the expected rainfall for this month. Rainfall was 9.52 inches below normal for the 8-month period (November 1, 1999 to June 30, 2000). Based on initial rainfall reports (SFWMD, 2000), the drainage area of Lake Okeechobee was drier than normal as indicated by the reduction in inflow to the lake. Evaporation was 9.0 percent greater than expected for the period from November 1, 1999 to June 30, 2000. An additional 3.13 inches of water above the previously reported average was lost from the lake during this period due to evaporation. For the study period, the total rainfall was 13.7 inches and evaporation losses were estimated at 33.9 inches. From April 25 to June 30, 2000, rainfall amounted to 5.15 inches and evaporation was 14.1 inches.

Inflow to the lake from November 1999 to June 2000 was 507,644 acre-feet while outflow was 1,815,695 acre-feet. The highest monthly inflow was in April (113,609 acre-feet) and the largest outflow was in May (523,386 acre-feet). Inflows to the lake were lower for March, May and June. April had the largest inflow. Between April 25 and June 30, 2000, inflows to the lake were 48,328 ac-ft and outflows were 784,386 ac-ft. The estimated supplemental water withdrawn in the Everglades Agricultural Area, L8, Industrial Canal, St. Lucie and Caloosahatchee basins was 350,531 ac-ft. From April 25 to June 30, the volume of water that passed through these basins was 433,855 ac-ft. The combination of lower than

expected rainfall, increased evaporation, lower inflows to the lake and releases from the lake resulted in the lake stage receding from 17.66 ft NGVD at the beginning of November 1999 to 11.90 ft NGVD at the end of June 2000. The change in stage from April 25, 2000 to June 30, 2000 was 2.99 ft.

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APPENDIX A

BEFORE THE GOVERNING BOARD OF THE
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

RESOLUTION NO. 08-31

RESOLUTION CONCERNING IMMEDIATE, SHORT-TERM ACTIONS
TO LOWER LAKE OKEECHOBEE WATER LEVELS

On this 25th day of April, 2009, the South Florida Water Management District Governing Board resolves that there is an imminent need for lower water levels in Lake Okeechobee for protection of the public health, safety and welfare, and for the ecological health of Lake Okeechobee; and hereby finds as follows:

1. WHEREAS, for the past several years the high water levels in Lake Okeechobee have adversely affected the native plant and animal life in the Lake to the point that the natural ecosystem of the Lake is immediately threatened, and it is therefore vital that action be taken now, and not delayed for a year, because it is not known if the natural ecosystem of the Lake can withstand another year of high water levels.
2. WHEREAS, South Florida Water Management District scientists predict that if the water levels in the Lake can be reduced to 13.0 feet N.G.V.D. and held at that level or lower for at least 8 weeks, significant amounts of native submerged vegetation will be established, which will greatly benefit the natural ecosystem of the Lake.
3. WHEREAS, the present level of Lake Okeechobee is at approximately 14.89 feet N.G.V.D.
4. WHEREAS, since the summer rainy season is imminent and is likely to cause increases in Lake Okeechobee water levels, if any action is to be taken this year in lower and keep water levels in the Lake at 13.0 feet N.G.V.D., it must be taken immediately.
5. WHEREAS, immediate and short term reductions in Lake Okeechobee waters levels have the potential to generate significant long-term benefits, especially for the future implementation of modified Lake Okeechobee regulation schedules.
6. WHEREAS, the Governing Board recognizes that increasing discharges from Lake Okeechobee to lower its water level at this time may have some adverse impacts on other water resources, including possible impacts on the salinity balance in the St. Lucie River and Caloosahatchee River estuaries, water quality, and water supply for municipal and agricultural interests.

7. WHEREAS, three potential approaches to lake management have been identified, including a base plan, a public input plan, and a shared adversity plan, all of which are consistent with the existing authority of the District.
8. WHEREAS, notices of this emergency meeting were published in Palm Beach Post on Mondays, April 27, 2009, were posted on the District website, were anticipated through numerous articles and press releases, and were sent to interested groups and individuals via electronic mail.
9. WHEREAS, given the nature of the emergency, and the substantial public participation and debate on these matters, the Governing Board finds that this action is fair and reasonable under the circumstances, exceeds the procedural requirements of state and federal law, and specifically conforms with the requirements of Section 120.525(3), Fla. Stat. and Rule 28-102.063, Fla. Admin. Code.

THEFORE, based on the above findings and in order to address the serious and imminent threat to the public health, safety and welfare, and the ecological health of Lake Okeechobee, the Governing Board hereby:

- A. Determines that emergency Governing Board action at this emergency meeting is necessary to protect the public health, safety and welfare.
- B. Determines that in order to reasonably protect the ecological health of Lake Okeechobee, the Executive Director shall implement the Shared Adversity Plan (the "Action Plan"), as described in Exhibit A, as follows:
 1. The Executive Director shall use his best efforts to follow the operational and ecological objectives established for the Action Plan, including increased discharges of waters to the Caloosahatchee and St. Lucie Estuaries, and increased passage of waters into, through and from the Water Conservation Areas to the Florida coastline.
 2. The Executive Director shall implement the Action Plan in accordance with the requirements of federal law and regulations regarding flood control and water supply, and shall ensure that the District fulfills its responsibilities as local sponsor of the Federal Central & Southern Florida Flood Control Project, in accordance with the Master Water Control Manual, Lake Okeechobee and Everglades Agricultural Area, Volume 3 (June 1998).
 3. The Executive Director shall further implement this Action Plan in accordance with the emergency measures defined in the 2000 Emergency Actions to Protect the Cape Sable Seaside Sparrow from Structural and Operational Plan, and the water resource objectives of the District, as defined in Chapter 373, Fla. Stat.

4. The Executive Director shall implement the Action Plan using the guidelines contained in Exhibit B, and when necessary, shall make recommendations thereto consistent with the purposes of the Action Plan requirements of law.
5. The Executive Director shall provide periodic updates to the flow of the status of Lake Okeechobee and the implementation of the Act.
6. The Executive Director shall continue developing this Action Plan to provide additional details on the implementation of this Action Plan Governing Board at the May 10-11, 2000 meetings.

RESOLVED AND ADOPTED by the Governing Board of the South Florida Management District, on this 25th day of April, 2000.

**RESOLUTION CONCERNING IMMEDIATE,
SHORT-TERM ACTIONS
TO LOWER LAKE OKEECHOBEE WATER
LEVELS**

SOUTH FLORIDA WATER
MANAGEMENT DISTRICT,
BY ITS GOVERNING BOARD


Michael Collins
Chairman

ATTEST

By _____

Secretary

LEGAL FORM APPROVED:


John Fumero, General Counsel

LO RECESSSION - STATUS

- Guidance sought at April 13 Governing Board
 - Board direction to implement recession 1 (constant, low level releases to estuaries)
 - Board direction to hold an emergency meeting on April 19 to seek public input and consensus

LO RECESSSION BASE PLAN

- Current operations:
 - 500 cfs, constant releases to Caloosahatchee (S-79)
 - 300 cfs, constant releases to St. Lucie (S-80)
- (lake releases adjusted based on inflow and demand)

LO RECESSSION - STATUS (cont'd)

- April 19th Emergency Meeting:
 - 4 recession plans presented
 - performance measures discussed
 - break-out groups (LO, Everglades, Estuaries, Water Supply) formed
 - input obtained from break-out groups
 - 3 new recession plans developed
- April 25 Emergency GB meeting scheduled

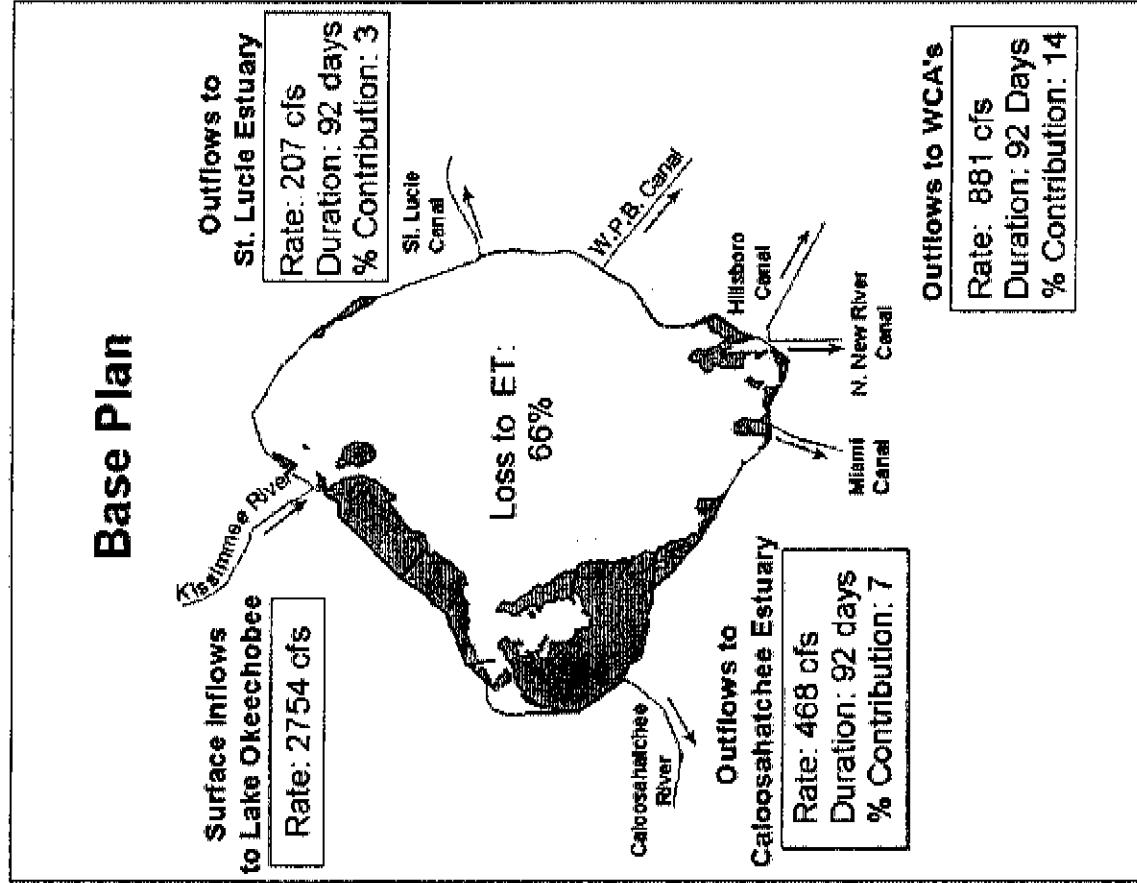
LO RECESSSION PUBLIC INPUT PLAN

- Modified Lake Kissimmee schedule to hold water in May (*Hydrilla* treatment)
- Estuary releases up to 800 cfs in Caloosahatchee and 680 cfs in St. Lucie
- WCA operations:
 - pass LO discharges through WCAs to tide via LEC canals
 - use LO sooner (in place of WCAs) to maintain LEC canal levels (for groundwater recharge and prevent saltwater intrusion)

LO RECESSION - PUBLIC INPUT PLAN (cont'd)

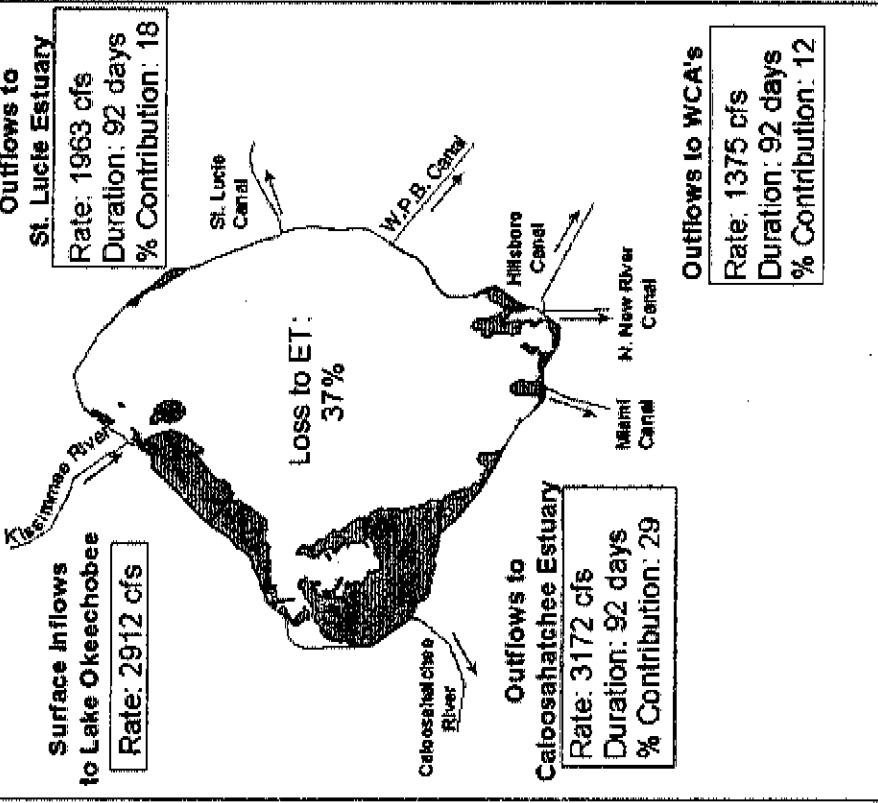
- Use S-7 and S-8 to pump LO water to supply LEC canals
- Store water in Holey Land and Rotenberger
- Hold LEC canals higher without negative impacts on flood control
- Modifications to District's Water Shortage guidelines (Supply Side Management) if water supply restrictions occur in 2001

Base Plan

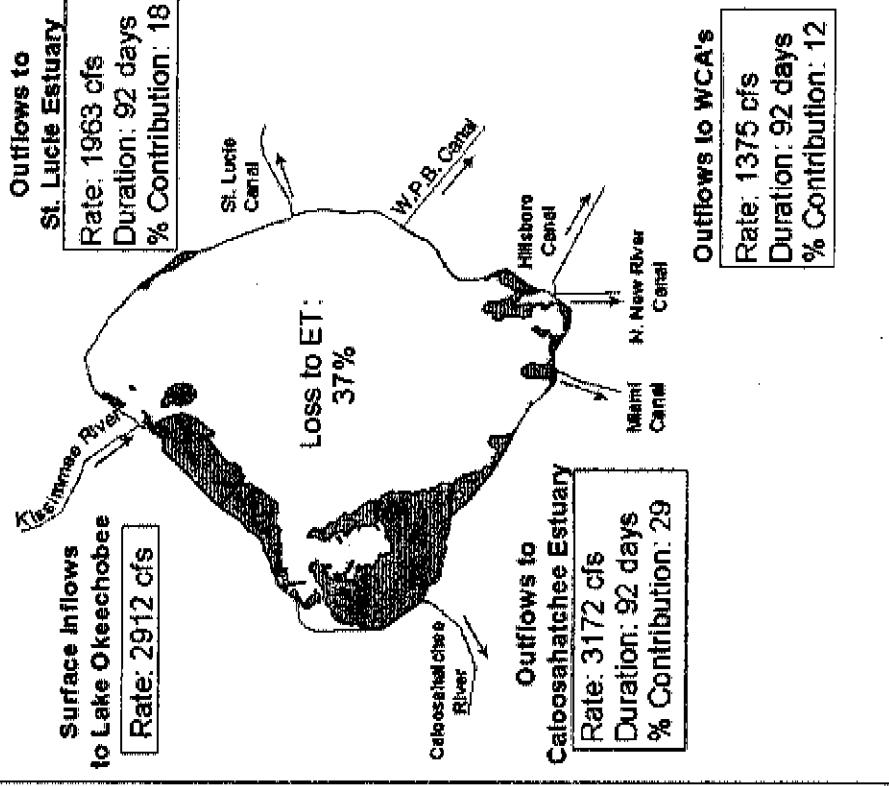


- All elements in Public Input Plan, plus:
 - Allow up to maximum discharges between May 1st and July 31st as long as lake stage is above 13 ft

Public Input Plan



Shared Adversity Plan



POTENTIAL ADVERSITIES

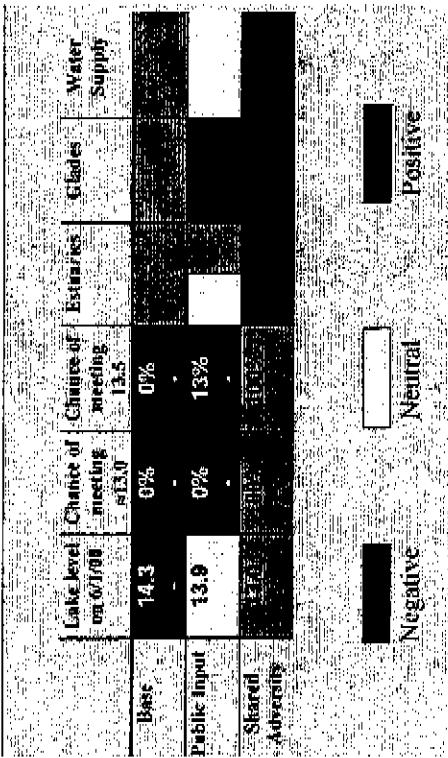
Plan	P Exchange*		Water Supply Restrictions		
	WCA1	WCA2A	WCA3	Year 2000	Year 2001
Base	3.4	0.1	12.5	7%	7%
Public Input	3.8	0.4	25.3	17%	10%
Shared Adversity	1.7	0.1	22.4	23%	27%

*Units: metric tonnes over 3 month periods.

RESOLUTION CONCERNING IMMEDIATE, SHORT-TERM ACTIONS TO LOWER LAKE OKEECHOBEE WATER LEVELS

Lake Okeechobee Operational Alternatives Comparison

Exhibit B



LAKE OKEECHOBEE RECEDENCE OPERATIONAL GUIDELINES

April 25, 2000

These Guidelines provide further operational details for the implementation of the Lake Okeechobee Target Analysis modeling assumptions.

LAKE OKEECHOBEE OPERATIONAL GUIDELINES

Releases to the Estuaries to Meet Environmental Targets

- Maintain minimum estuary deliveries at S-79 & S-80 as identified in the Modeling Assumptions

Lake Okeechobee Recession Releases to the Estuaries and Water Conservation Areas

- Zone A, B, & C: USACE Water Control Plans for Lake Okeechobee
- Zone D: Follow USACE Water Control Plan definition of Level III Pulse releases.

WATER CONSERVATION AREAS (WCAs)

OPERATIONAL GUIDELINES

- Raise water supply "target" stage per table and description.
- If WCAs are above schedule then inflows are constrained to equal outflow
- If WCAs (1 & 2) are below schedule then inflows are not constrained.
- If WCA 3A is below schedule then inflows are constrained to equal outflow
- Pump as needed WCA water supply inflows to max effectiveness
- Pump G-200 to raise water depth in Holley Land to -2 ft utilizing lake water
- Install temporary pumps (200cf/s on STA 5 Outfall Canal) to raise water depth in Roseberger Marsh to -2 ft utilizing lake water

LFG CANALS OPERATIONAL GUIDELINES

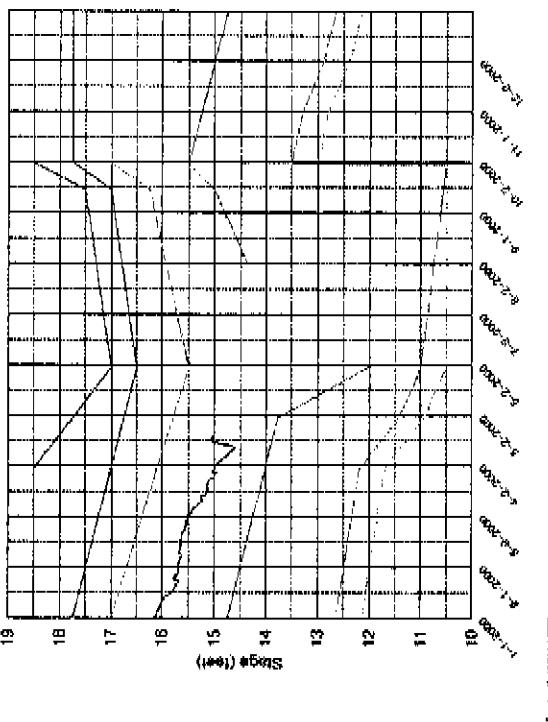
Hold canals higher than "operant" stages identified in the USACE Water Control Plan, without significantly affecting flood control capability

SUPPLY SHUT MANAGEMENT OPERATIONAL GUIDELINES

Modify Director's water shortage guidelines for supply side management through subsequent Governing Board action if LOSA water shortage contracts are required in 2001.

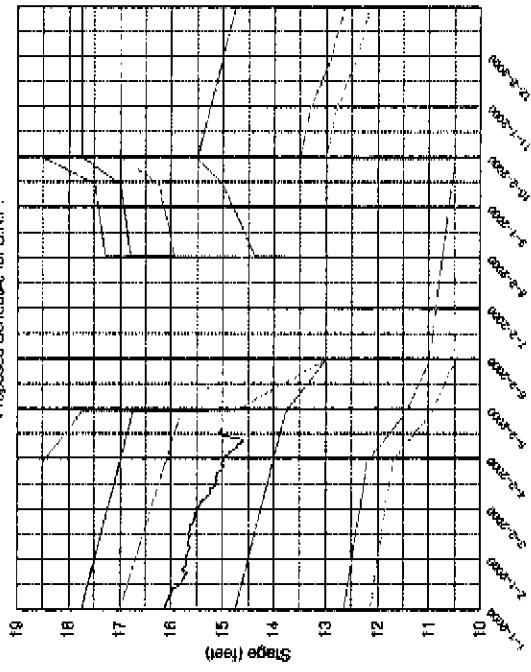
Lake Okeechobee Recession Operational Schedule

Proposed Schedule for P.I.P.



Lake Okeechobee Recession Operational Schedule

Proposed Schedule for S.A.P.



Time Axis: 0 to 100 days

Lake Okeechobee Target Analysis - May 01, 2006 SWMM V3.6.1 Pollution Analysis Simulation
Main Modeling Assumptions

Feature/Run	Base	Plan A	Plan B	Comments
Rain Definition	Current Base	Consensus	Shared Above	
Environmental Demands for the Caloosahatchee Estuary	300 cfs May 1 - July 31	500 cfs May 1 - July 31	500 cfs May 1 - July 31	Increase flow elevations in each Water Conservation Area (WCA). The flow elevation is the level in a particular WCA in which no more supplemental water for LEC Water Supply may be taken from a particular WCA. In the case water levels fall below this level, water must be routed from another source, which is usually Lake Okeechobee, to meet the supplemental water requirements for the LEC. For this modeling run the following adjustments were made:
Environmental Demands for the St. Lucie Estuary Flow Elevation in the WCA's	None	600 cfs May 1 - July 31	600 cfs April 1 - July 31	
Maintenance Levels in major LEC Canals	No Change	Increased for WCA-1, WCA-2A and WCA-3A (see table below)	Increased for WCA-1, WCA-2A and WCA-3A (see table below)	
Shape of zones A, B, C	As in WSE Schedule	As in WSE Schedule	See Figure 2	
Shape of WSE Zone D	As in WSE Schedule	See Figure 1	See Figure 2	
Releases in Zone D of WSE regulation Schedule	Constant releases through 5.17 and 5.80 of 500 and 300 cfs respectively.	Constant releases through 5.17 and 5.80 of 800 and 600 cfs respectively.	Level 3 Pulse Releases	
Pumping through S-7 and S-8 for LEC water supply	No	Yes	Yes	
SSM Line Modified	No	Yes, lowered 0.5 ft (see figure)	Yes, lowered 0.5 ft (see figure)	
Lake Regulatory Releases to the Holly Land WPA	No	Yes, to a maximum of 2.0 ft, inflow capacity 750 cfs	Yes, to a maximum of 2.0 ft, inflow capacity 750 cfs	
Lake Regulatory Releases to the Rosewood WPA	No	Yes, No 3 inundation of 2.0 ft, inflow capacity 200 cfs	Yes, to a maximum of 2.0 ft, inflow capacity 200 cfs	
Lake Regulatory Releases to tie through WCA's and LEC SAS	No	Yes	Yes	

Increase flow elevations in each Water Conservation Area (WCA). The flow elevation is the level in a particular WCA in which no more supplemental water for LEC Water Supply may be taken from a particular WCA. In the case water levels fall below this level, water must be routed from another source, which is usually Lake Okeechobee, to meet the supplemental water requirements for the LEC. For this modeling run the following adjustments were made:

WCA-1: from 14.0 to 16.0 ft.
 WCA-2A: from 14.5 to 10.9 ft.
 WCA-3A: from 7.5 to 9.3 ft.

Increase maintenance levels in the major LEC Canal's

Increase maintenance levels up to 0.5 ft without getting within 0.1 ft below flood control levels. Adjustments in Canal maintenance levels during the dry season in this model run were made as follows:

NWRC	3.5 to 4.0 [feet]
LWDOSE	3.8 to 4.2 [feet]
C-12	2.7 to 3.4 [feet]
L-33	3.0 to 3.5 [feet]
C-6	2.0 to 2.2 [feet]
C-7	1.5 to 1.7 [feet]
S-148U	3.0 to 3.5 [feet]
L-315	4.0 to 4.3 [feet]
C-102	2.8 to 3.3 [feet]
C-103	2.8 to 3.2 [feet]
C-111	3.0 to 3.6 [feet]
C-111E	1.8 to 2.2 [feet]
S-197	1.2 to 1.7 [feet]
Pomp.	13.0 to 13.5 [feet]
HLSP	13.0 to 13.5 [feet]

Projected Stages at Key Locations/Capes:

Lake Okeechobee: 14.75 ft.

1-215.42 ft.
 1-815.16.42 ft.
 1-7-16.42 ft.

2-17.11.80 ft.
 34-3.9.60 ft.
 34-4.9.20 ft.

3A-2B.9.00 ft.
 HP-205.5.39 ft.
 Holley Land: 11.00 ft.

SFWMM 05/01/2000 and 04/01/2000 (Base) Position Analysis Modeling Assumptions

The South Florida Water Management Model (SFWMM) version 3.8 was used in Position Analysis mode (period of simulation 1955 to 1995) to investigate the future response of the SFWMD water control system, given the state of the system on May 1, 2000. The Position Analysis simulation was created with elements from the following simulations:

95 Base: Current normal structure operations and demands. Test 7 phase I operations in South Dade Conveyance System (SDCS). The Lake Okeechobee regulation schedule for this runs is WSE.

ISOP: Current (January through March 2000) Interim Structure and Operational Plan operations as specified in the following Corps of Engineers documents: ISOP, Dec 8, 1999; Draft ISOP for period Jan 4 through February 29, 2000, Jan 3, 1999; and Draft Environmental Assessment ISOP Operations for the Period March 1, 2000 until the ICP begins on March 1, 2000, Jan 10, 2000. Due to the long-term nature of SFWMM simulations several assumptions for operations not specified in the referenced documents were made. Test 7 Phase I operations or lower were used in the SDGS.

Specific operations that differ from those of the 95 Base and operations for the South Grade Conveyance System are given in the following table.

ISOP	
Regulation Schedule	WSE Regulation Schedule for Lake Okeechobee. Devotion schedules for WCA-2A (S-11 A, B & C structures closed) and WCA-3A as specified by USACE.
S-343 AB and S-344	Closed Jan 1 to July 15 independent of WCA-3A levels.
S-12 A/B/C/D	S-12 A & B closed Jan 1 to Jul 15 S-12 C & D closed Mar 1 to Jul 15 Follow WCA-3A regulation schedule as in 95 Base for remainder of year
S-333: G-3273 < 6.8	Maximum possible discharges subject to S-333 design capacity (1350 cfs) and limited to sum of NE/SRS rainfall plan targets plus any outflow through S-334 (as per WCA-3A deviation schedule).
S-333: G-3273 > 6.8	Maximum possible discharge subject to S-333 design capacity (1350 cfs) and limited to outflow through S-334 as per WCA-3A deviation schedule
L-29 consultant	9.5 ft
S-337	Regulatory releases as per WCA-3A deviation schedule
S-151	Regulatory releases as per WCA-3A deviation schedule
S-335	Start opening 7.2 ft full open 7.5
S-334	Passes S-333 regulatory release to SDCS
S-338	Operated to maximize discharges to coast. Start opening 5.4, full open 5.8
G-211	Start opening 5.5, full open 6.0
S-331	Anger's Well Criteria
S-332B	500 cfs after May 1, 0 cfs Jan 1 to April 30
S-332D	500 cfs design capacity
S-332	Operated according to Taylor Slough Rashall plan with 465 cfs capacity, subject to 165 cfs limitations from Mar 1 to Jul 15.
S-175	Start opening 4.3, full open 4.7
S-194 and S-196	Operated to maximize flood control discharges to coast. Start opening 4.2, full open 4.7
S-178	Start opening 4.5 full open 4.7
S-177	Start opening 3.6 full open 4.2
S-180	Start opening 2.3 full open 2.5
S-197	Open - see footnote * Close at 2.3

* If $5.5 < \text{Anger's Web} < 6.0$, pump to maintain S-331 HW between 4.5 and 5.0; if Anger's web > 6.0 pump to maintain S-331 HW between 4.0 and 4.5, until Anger's < 5.7 . Terminate pumping if $S-176 \text{ HW} > 5.5$. Terminate pumping if $S-331 \text{ TW} > 6.0$; resume pumping when $S-176 \text{ HW} < 5.0$, $S-197 > 9.5$. Base criteria: Uses same as Test 7 phase I criteria, namely: Open 3 gates if $S-177 > 4.3$ ft or $S-18C > 3.3$ ft. Close when all following conditions are met:
 1) $S-176 < 5.2$ and $S-177 < 4.2$; 2) Storm moved away from basin, and 3) after 1 and 2 are met, keep the number of S-187 curtains open necessary only to match residual head through S-176. All curtains closed if $S-177 < 4.1$ after all conditions satisfied. In SFWMH flow is limited to keep stage above the gate closed levels specified above.

Extracted from: Interim Structural and Operational Plan Modeling Assumptions, 02N04100, by Ken Talbot, SFWMH.

APPENDIX B

Table B - 1. Daily Rainfall for Lake Okeechobee (inches) - November 1999 to June 2000.

Day	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00
1	0.16	0.00	0.00	0.00	0.00	0.01	0.00	0.00
2	0.12	0.00	0.00	0.01	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
4	0.00	0.01	0.09	0.01	0.00	0.00	0.00	0.18
5	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.11
6	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.14
7	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.41
8	0.00	0.00	0.01	0.38	0.00	0.13	0.02	0.29
9	0.00	0.01	0.02	0.10	0.00	0.00	0.04	0.01
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.40
12	0.00	0.01	0.00	0.00	0.01	0.67	0.00	0.19
13	0.00	0.01	0.00	0.00	0.00	0.65	0.00	0.03
14	0.00	0.05	0.00	0.01	0.00	2.60	0.01	0.00
15	0.00	0.01	0.00	0.00	0.00	0.33	0.23	0.00
16	0.00	0.00	0.00	0.00	0.02	0.17	0.02	0.00
17	0.00	0.33	0.00	0.00	0.09	0.00	0.00	0.01
18	0.00	0.08	0.00	0.00	0.12	0.00	0.00	0.00
19	0.00	0.01	0.00	0.00	0.38	0.00	0.00	0.45
20	0.01	0.00	0.00	0.00	0.05	0.00	0.00	0.01
21	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01
22	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.03
23	0.01	0.00	0.03	0.00	0.00	0.00	0.01	0.03
24	0.00	0.00	0.64	0.01	0.01	0.01	0.00	1.14
25	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.33
26	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.13
27	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.32
28	0.01	0.08	0.00	0.00	0.12	0.00	0.01	0.16
29	0.00	0.02	0.00	0.00	0.03	0.00	0.00	0.20
30	0.00	0.00	0.00		0.03	0.00	0.00	0.23
31	0.00	0.00	0.00		0.07	0.00		
Total	0.37	0.66	0.81	0.56	1.57	4.58	0.34	4.81

Table B - 2. Daily Evaporation for Lake Okeechobee (inches) - November 1999 to June 2000.

Day	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00
1	0.118	0.132	0.103	0.088	0.177	0.199	0.177	0.250
2	0.081	0.140	0.125	0.037	0.177	0.213	0.243	0.243
3	0.155	0.074	0.125	0.088	0.155	0.206	0.155	0.243
4	0.132	0.081	0.110	0.147	0.140	0.169	0.235	0.213
5	0.125	0.052	0.110	0.162	0.184	0.228	0.228	0.191
6	0.096	0.110	0.110	0.155	0.184	0.228	0.235	0.155
7	0.132	0.118	0.110	0.147	0.155	0.206	0.177	0.155
8	0.110	0.110	0.081	0.029	0.162	0.184	0.228	0.088
9	0.103	0.118	0.118	0.155	0.177	0.228	0.228	0.228
10	0.081	0.088	0.110	0.162	0.184	0.184	0.243	0.199
11	0.096	0.103	0.088	0.162	0.147	0.184	0.191	0.118
12	0.125	0.059	0.132	0.155	0.140	0.169	0.235	0.191
13	0.096	0.103	0.132	0.147	0.184	0.118	0.228	0.228
14	0.118	0.052	0.132	0.140	0.199	0.029	0.213	0.235
15	0.103	0.037	0.081	0.162	0.147	0.169	0.199	0.213
16	0.088	0.059	0.074	0.162	0.169	0.206	0.228	0.228
17	0.074	0.037	0.140	0.169	0.177	0.199	0.235	0.235
18	0.125	0.066	0.140	0.140	0.103	0.228	0.228	0.221
19	0.118	0.110	0.088	0.155	0.066	0.235	0.243	0.191
20	0.132	0.088	0.110	0.125	0.199	0.228	0.243	0.235
21	0.074	0.081	0.147	0.177	0.206	0.213	0.243	0.221
22	0.118	0.096	0.140	0.140	0.199	0.228	0.206	0.235
23	0.118	0.074	0.125	0.140	0.199	0.228	0.213	0.177
24	0.103	0.125	0.066	0.140	0.177	0.191	0.235	0.221
25	0.081	0.132	0.096	0.132	0.213	0.206	0.235	0.096
26	0.066	0.132	0.147	0.155	0.147	0.235	0.199	0.213
27	0.103	0.125	0.140	0.162	0.103	0.235	0.206	0.132
28	0.118	0.059	0.110	0.184	0.213	0.228	0.199	0.184
29	0.125	0.125	0.140	0.184	0.206	0.206	0.228	0.213
30	0.125	0.132	0.125		0.184	0.235	0.213	0.184
31	0.118	0.103			0.177		0.243	
Total	3.24	2.94	3.56	4.10	5.25	6.02	6.81	5.94

Table B - 3. Daily Mean Stage for Lake Okeechobee (ft NGVD) - November 1999 - June 2000.

Day	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00
1	17.66	16.85	16.16	15.52	15.52	14.97	14.52	12.51
2	17.68	16.76	16.12	15.69	15.49	14.96	14.43	12.36
3	17.70	16.68	16.11	15.69	15.47	14.94	14.37	12.34
4	17.68	16.66	16.12	15.68	15.45	14.91	14.28	12.33
5	17.62	16.65	16.10	15.67	15.44	14.85	14.21	12.31
6	17.58	16.62	16.11	15.66	15.42	14.86	14.12	12.26
7	17.56	16.62	16.07	15.65	15.40	14.78	14.04	12.21
8	17.51	16.62	16.06	15.64	15.36	14.76	13.95	12.23
9	17.49	16.59	16.05	15.64	15.33	14.75	13.86	12.24
10	17.45	16.56	16.03	15.68	15.30	14.72	13.76	12.22
11	17.34	16.53	16.03	15.67	15.29	14.65	13.68	12.20
12	17.41	16.52	16.01	15.66	15.28	14.62	13.61	12.18
13	17.38	16.48	15.99	15.66	15.26	14.61	13.53	12.20
14	17.36	16.46	15.96	15.65	15.26	14.70	13.45	12.17
15	17.32	16.46	15.92	15.64	15.21	14.81	13.37	12.13
16	17.29	16.44	15.89	15.66	15.20	14.89	13.30	12.08
17	17.25	16.43	15.87	15.65	15.13	15.04	13.26	12.04
18	17.18	16.43	15.80	15.64	15.13	15.05	13.22	12.00
19	17.12	16.42	15.78	15.64	15.13	15.04	13.16	11.96
20	17.10	16.42	15.76	15.63	15.13	15.01	13.09	11.97
21	17.08	16.40	15.75	15.63	15.13	15.01	13.02	11.93
22	17.05	16.38	15.73	15.62	15.12	14.99	12.95	11.88
23	17.03	16.36	15.71	15.59	15.12	14.97	12.92	11.83
24	17.00	16.35	15.68	15.56	15.11	14.94	12.86	11.84
25	16.95	16.33	15.68	15.55	15.08	14.89	12.82	11.85
26	16.98	16.32	15.78	15.55	15.05	14.88	12.76	11.86
27	16.97	16.29	15.75	15.54	15.01	14.83	12.72	11.88
28	16.97	16.25	15.72	15.54	14.97	14.74	12.67	11.89
29	16.93	16.23	15.71	15.53	15.01	14.67	12.63	11.89
30	16.85	16.21	15.70		14.99	14.62	12.58	11.90
31		16.18	15.69		14.98		12.56	
Average	17.28	16.47	15.90	15.63	15.22	14.85	13.41	12.09

Table B - 4. Daily Inflow to Lake Okeechobee - November 1999 to June 2000

Station	S3	S2	S308	S154	S71	S84	S127	S129	S131	S65E	S72	S133	S35	S191	18-441	C-10	INDUS	S4	S256	C12	C12A	C4A	FEC	Total	Inflow	ac-ft
Date	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs
19991101	0	0	0	84	45	832	128	0	0	2380	67	0	205	251	0	198	0	312	170	173	94	67	442	10824	9543	
19991102	0	0	0	113	258	572	64	68	34	2090	158	189	209	156	0	6	0	313	39	47	94	0	403	9036	7464	
19991103	0	0	0	95	284	1062	0	0	0	2020	25	0	210	122	0	45	0	168	45	0	94	24	361	324	5261	
19991104	0	0	0	75	305	417	87	0	0	2020	128	0	65	125	0	42	0	0	14	42	94	13	317	317	5437	
19991105	0	0	0	55	0	0	0	0	0	2040	0	0	0	0	0	42	0	0	42	39	94	24	317	317	5252	
19991106	0	0	0	33	30	1	0	0	0	2100	32	0	0	130	0	0	0	0	0	0	0	0	0	323	323	
19991107	0	0	0	64	41	196	127	0	0	1890	46	0	0	122	0	0	0	0	0	0	0	0	0	0	361	5831
19991108	0	0	0	63	9	526	0	0	0	1610	12	0	0	0	0	0	0	0	0	0	0	0	0	0	373	
19991109	0	0	0	60	0	607	0	0	0	1750	0	0	0	119	0	0	0	0	0	0	0	0	0	0	350	
19991110	0	0	0	19	400	102	69	0	0	1620	69	0	179	0	0	0	0	0	0	0	0	0	0	0	27	
19991111	0	0	0	62	33	279	0	0	0	1340	105	0	0	0	0	0	0	0	0	0	0	0	0	0	27	
19991112	0	0	0	0	0	447	68	31	40	1050	68	0	0	122	0	0	0	0	0	0	0	0	0	0	4170	
19991113	0	0	0	58	0	568	0	0	0	1090	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3778	
19991114	0	0	0	68	473	0	0	0	0	738	0	0	0	0	0	0	0	0	0	0	0	0	0	0	311	
19991115	0	0	0	57	11	0	0	0	0	1080	0	0	0	122	0	0	0	0	0	0	0	0	0	0	2851	
19991116	0	0	0	24	0	135	96	0	0	244	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2778	
19991117	0	0	0	29	63	148	0	0	0	242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	
19991118	0	0	0	0	0	25	48	0	0	257	0	0	0	48	0	0	0	0	0	0	0	0	0	0	1142	
19991119	0	0	0	0	0	47	69	0	0	194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1546	
19991120	0	0	0	16	193	0	0	0	0	419	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1305	
19991121	0	0	0	52	36	0	2	0	0	302	0	155	0	24	0	0	0	0	0	0	0	0	0	0	712	
19991122	0	0	0	0	7	0	0	0	0	335	9	0	0	0	0	0	0	0	0	0	0	0	0	0	1539	
19991123	0	0	0	0	0	112	110	0	0	230	0	0	0	114	0	0	0	0	0	0	0	0	0	0	1332	
19991124	0	0	0	47	89	0	53	46	213	0	0	0	174	0	0	0	0	0	0	0	0	0	0	0	45	
19991125	0	0	0	45	29	0	0	0	0	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	
19991126	0	0	0	7	112	0	0	0	0	159	8	0	0	122	0	0	0	0	0	0	0	0	0	0	3935	
19991127	0	0	0	191	403	0	0	0	0	187	76	0	0	0	0	0	0	0	0	0	0	0	0	0	1620	
19991128	0	0	0	210	397	0	0	0	0	166	115	0	0	0	0	0	0	0	0	0	0	0	0	0	397	
19991129	0	0	0	0	0	0	0	0	0	133	31	0	0	108	0	0	0	0	0	0	0	0	0	0	411	
19991130	0	0	0	0	0	0	0	0	0	198	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	
19991131	0	0	0	0	0	0	0	0	0	209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	
19991132	0	0	0	0	0	0	0	0	0	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	
19991133	0	0	0	0	0	0	0	0	0	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	

Station	S3	S2	S308	S154	S71	S84	S127	S129	S131	S65E	S72	S133	S135	S191	C-10	INDUS	S4	S236	C72	C72A	C4A	FEC	Total	
Date	efs	efs	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	cls	Inflow	
																								ac-1
19991204	0	0	0	0	0	0	0	0	0	0	314	0	0	0	0	0	0	0	0	0	0	0	31	684
19991205	0	0	0	0	0	0	0	112	0	0	442	0	0	0	0	0	0	0	0	0	0	0	31	1387
19991206	0	0	0	0	0	0	0	181	0	0	802	0	175	0	0	0	0	0	0	0	0	0	30	2375
19991207	0	0	0	0	0	0	0	4	0	0	307	0	0	0	0	0	0	0	0	0	0	0	30	676
19991208	0	0	0	0	0	0	0	36	0	0	501	0	0	0	0	0	0	0	0	0	0	0	29	1122
19991209	0	0	0	0	0	0	0	74	0	0	363	0	0	0	0	0	0	0	0	0	0	0	23	912
19991210	0	0	0	0	0	0	0	0	113	82	0	508	0	0	0	0	0	0	0	0	0	0	22	1542
19991211	0	0	0	0	0	0	0	0	0	0	493	0	0	0	0	0	0	0	0	0	0	0	22	1431
19991212	0	0	0	0	0	0	0	2	0	0	493	0	0	0	0	0	0	0	0	0	0	0	22	1124
19991213	0	0	0	0	0	0	0	8	0	0	766	0	0	0	0	0	0	0	0	0	0	0	21	1576
19991214	0	0	0	0	0	0	11	9	0	0	468	0	0	0	0	0	0	0	0	0	0	0	21	1050
19991215	0	0	0	0	0	0	53	0	86	0	880	0	0	0	0	0	0	0	0	0	0	0	20	2148
19991216	0	0	0	0	0	0	62	93	0	0	814	7	0	0	0	0	0	0	0	0	0	0	21	2019
19991217	0	0	0	0	132	213	61	59	41	567	0	84	73	107	0	0	41	0	0	0	0	0	24	2667
19991218	0	0	0	0	154	235	0	0	0	786	24	0	0	0	0	0	0	0	0	0	0	0	28	2567
19991219	0	0	0	0	289	685	0	0	0	1140	117	0	0	0	0	0	0	0	0	0	0	0	35	4545
19991220	0	0	0	0	85	840	0	0	0	1950	34	174	141	113	0	0	0	0	0	0	0	0	44	4956
19991221	0	0	0	0	11	423	0	0	0	690	0	0	0	0	0	0	69	0	0	0	0	0	52	2601
19991222	0	0	0	0	4	201	0	70	41	702	67	0	0	0	0	0	72	0	0	0	0	0	67	2521
19991223	0	0	0	0	137	161	0	0	0	1110	72	0	0	0	0	0	50	0	0	0	0	0	63	3378
19991224	0	0	0	0	66	324	0	0	0	1560	87	0	0	0	0	0	69	0	0	0	0	0	67	3778
19991225	0	0	0	0	0	0	0	0	0	1340	0	0	0	0	0	0	0	0	0	0	0	0	67	2791
19991226	0	0	0	0	0	0	0	159	0	0	1410	0	0	0	0	0	0	0	0	0	0	0	64	3318
19991227	0	0	0	0	15	65	0	0	0	1310	0	0	0	0	0	0	31	0	0	0	0	0	58	2976
19991228	50	0	0	0	0	0	0	0	0	0	1370	0	0	0	0	0	0	0	0	0	0	0	52	2920
19991229	24	0	0	0	0	0	0	0	0	0	1250	0	176	0	0	0	0	0	0	0	0	0	29	0
19991230	0	0	0	0	109	0	88	70	13	1270	0	178	110	0	0	0	27	0	0	0	0	0	47	3027
19991231	0	0	0	0	58	1	0	0	0	1250	0	0	0	0	0	0	0	0	0	0	0	0	41	3872
20000101	0	0	0	0	51	0	0	0	0	1200	0	0	0	0	0	0	0	0	0	0	0	0	37	2669
20000102	0	0	0	0	121	0	0	0	0	1210	0	0	0	0	0	0	0	0	0	0	0	0	34	2549
20000103	0	0	0	0	2	0	0	0	0	1240	0	0	0	0	0	0	0	0	0	0	0	0	29	2462
20000104	0	0	0	0	105	161	0	0	0	1340	37	0	0	0	0	0	0	0	0	0	0	0	27	3041
20000105	0	0	0	0	32	0	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	27	3105
20000106	0	0	0	0	0	1	0	0	0	1200	0	0	0	0	0	0	0	0	0	0	0	0	26	2491

Station	S3	S2	S3DS	S154	S71	S84	S127	S129	S131	S45E	S72	S133	S135	S191	L8441	C-10	INDUS	S4	S236	C12	C12A	C4A	FEC	Total	Irrflow	
Date	cfs	cfs																								
Dekey	15018	15021	15626	15629	15633	15636	15641	15642	15643	15631	15634	15637	15638	15639	15640	15645	15628	15630	15644	15646	15647	15648	15627	15627	15627	
20000107	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
20000108	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
20000109	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2545
20000110	0	0	0	0	0	0	0	1	0	78	0	1130	0	0	0	0	0	0	0	0	0	0	0	0	2830	
20000111	0	0	0	0	0	0	86	0	0	1170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2441	
20000112	0	0	0	0	0	0	14	0	0	0	1220	0	0	0	0	0	0	0	0	0	0	0	0	0	2531	
20000113	0	0	0	0	0	0	0	0	0	0	1220	0	0	0	0	0	0	0	0	0	0	0	0	0	2697	
20000114	0	0	0	0	0	0	3	313	0	0	0	1180	0	0	0	0	0	0	0	0	0	0	0	0	2456	
20000115	0	0	0	0	0	0	139	0	0	0	987	0	0	0	0	0	0	0	0	0	0	0	0	0	3001	
20000116	0	0	0	0	0	0	0	0	0	0	1080	0	0	0	0	0	0	0	0	0	0	0	0	0	2265	
20000117	0	0	0	0	0	0	0	0	0	0	1170	0	0	0	0	0	0	0	0	0	0	0	0	0	2182	
20000118	0	0	0	0	0	0	0	0	0	0	1150	0	0	0	0	0	0	0	0	0	0	0	0	0	2348	
20000119	0	0	0	0	0	0	0	0	0	0	970	0	0	0	0	0	0	0	0	0	0	0	0	0	2309	
20000120	0	0	0	0	0	0	0	0	0	59	1180	0	0	0	0	0	0	0	0	0	0	0	0	0	1950	
20000121	0	0	0	0	0	0	4	0	10	0	1120	0	0	0	0	0	0	0	0	0	0	0	0	0	2482	
20000122	0	0	0	0	0	0	15	2	0	0	1040	0	0	0	0	0	0	0	0	0	0	0	0	0	2274	
20000123	0	0	0	0	0	0	0	7	0	0	981	0	0	0	0	0	0	0	0	0	0	0	0	0	2118	
20000124	0	0	0	0	0	0	207	399	93	0	1310	0	219	0	120	0	167	0	0	111	0	57	0	13	5454	
20000125	0	0	0	0	0	0	194	289	0	0	1320	0	0	0	0	0	0	0	0	45	0	40	0	17	3842	
20000126	0	0	0	0	0	0	0	192	0	0	1270	0	0	0	0	0	0	0	0	0	0	0	0	0	2835	
20000127	0	0	0	0	0	0	0	0	0	0	1130	0	0	0	0	0	0	0	0	0	0	0	0	0	2774	
20000128	0	0	0	0	0	0	0	0	0	0	1010	0	0	0	0	0	0	0	0	0	0	0	0	0	2009	
20000129	0	0	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0	2116	
20000130	0	0	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0	2220	
20000131	0	0	0	0	0	0	12	6	0	88	0	1150	0	0	0	0	0	0	0	0	0	0	0	0	2580	
20000201	0	0	0	0	0	0	41	0	0	46	956	0	0	0	0	0	0	0	0	39	0	0	0	0	2420	
20000202	0	0	0	0	0	0	68	105	0	0	956	0	0	0	0	0	0	0	0	35	0	0	0	0	2345	
20000203	0	0	0	0	0	0	0	0	0	72	0	1110	18	221	0	0	0	0	0	0	0	0	0	0	2508	
20000204	0	0	0	0	0	0	7	0	0	0	1110	0	0	0	0	0	0	0	0	0	0	0	0	0	2296	
20000205	0	0	0	0	0	0	181	0	0	0	1130	0	0	0	0	0	0	0	0	0	0	0	0	0	2596	
20000206	0	0	0	0	0	0	0	0	0	0	1110	0	0	0	0	0	0	0	0	0	0	0	0	0	2235	
20000207	0	0	0	0	0	0	4	0	0	0	1080	0	0	0	0	0	0	0	0	0	0	0	0	0	2208	
20000208	0	0	0	0	0	0	0	0	0	0	1080	0	92	93	112	0	0	0	0	0	0	0	0	0	2783	
20000209	0	0	0	0	0	0	0	0	0	0	933	0	0	0	0	0	0	0	0	33	0	0	0	0	1946	

Station	S3	S2	S308	S154	S71	S84	S127	S128	S131	S85E	S72	S133	S135	S191	L8,441	C-10	INDUS	S4	S236	C12	C12A	C4A	FEC	Total	Inflow	sc-f
Date	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs														
Dbkey	15016	15021	15626	15629	15633	15636	15641	15642	15643	15631	15634	15637	15638	15639	15640	15645	15628	15630	15644	15646	15647	15648	15627			
20000315	0	0	0	0	0	0	53	0	0	0	82	0	0	189	0	0	0	0	0	0	0	0	0	0	2	656
20000316	0	0	0	0	0	0	48	0	0	0	126	0	0	0	0	0	0	0	0	0	0	0	0	0	2	348
20000317	0	0	0	0	0	0	0	0	0	0	276	0	0	0	0	0	0	0	0	0	0	0	0	0	2	551
20000318	0	0	0	0	0	0	0	0	0	0	192	0	0	0	0	0	0	0	0	0	0	0	0	0	2	394
20000319	0	0	0	0	0	0	0	0	0	0	269	0	0	0	0	0	0	0	0	0	0	0	0	0	1	831
20000320	0	0	0	0	1	0	0	0	0	0	58	218	0	0	198	0	0	0	0	128	70	22	1	1776		
20000321	0	0	0	0	0	0	0	0	0	0	201	0	0	0	0	47	0	0	0	22	94	0	1	1027		
20000322	0	0	0	0	0	0	0	0	0	0	192	0	0	0	0	0	0	0	0	0	94	0	1	0	569	
20000323	0	0	0	0	0	0	0	0	1	0	277	0	0	0	0	0	0	0	0	0	84	0	1	0	789	
20000324	0	0	0	0	0	0	0	0	0	0	258	0	0	0	0	0	0	0	0	0	71	0	1	0	654	
20000325	0	0	0	0	0	0	0	0	0	0	245	0	0	0	0	0	0	0	0	0	16	0	1	0	516	
20000326	0	0	0	0	0	0	0	0	0	0	262	0	0	0	0	0	0	0	0	0	0	0	0	1	523	
20000327	0	0	0	0	0	0	0	0	0	0	37	35	295	0	72	0	0	0	0	0	0	0	0	0	1	892
20000328	0	0	0	0	0	0	0	0	0	0	325	0	0	0	0	0	0	0	0	0	34	0	2	0	718	
20000329	0	0	0	0	0	0	0	0	0	0	577	0	0	0	0	0	0	0	0	0	0	0	0	2	1149	
20000330	0	0	0	0	0	0	2	0	0	0	532	0	0	0	0	0	0	0	0	0	0	0	0	2	1064	
20000331	0	0	0	0	0	0	0	0	0	0	52	46	675	0	0	0	0	0	0	0	0	0	0	0	2	1590
20000331	0	0	0	0	0	0	0	0	0	0	1330	0	0	0	0	23	0	0	0	0	0	0	0	1	2686	
20000402	0	0	0	0	0	0	0	0	0	0	1860	0	0	0	0	0	0	0	0	0	0	0	0	1	3294	
20000403	0	0	0	0	0	0	0	0	0	0	1760	0	0	0	0	0	0	0	0	0	0	0	0	0	3493	
20000404	0	0	0	0	0	0	0	0	0	0	1740	0	0	0	0	0	0	0	0	0	0	0	0	0	3451	
20000405	0	0	0	0	0	0	0	0	0	0	1770	0	0	0	0	0	0	0	0	0	0	0	0	0	3513	
20000406	0	0	0	0	0	0	0	0	0	0	1650	0	0	0	0	0	0	0	0	0	0	0	0	0	3273	
20000407	0	0	0	0	0	0	0	0	0	0	1620	0	0	0	0	0	0	0	0	0	0	0	0	0	3213	
20000408	0	0	0	0	0	0	0	0	0	0	1510	0	0	0	0	0	0	0	0	0	0	0	0	0	2995	
20000409	0	0	0	0	0	0	0	0	0	0	1580	0	0	0	0	0	0	0	0	0	0	0	0	0	3124	
20000410	0	0	0	0	0	0	0	0	0	0	1500	0	0	0	0	0	0	0	0	0	0	0	0	0	2975	
20000411	0	0	0	0	0	0	0	0	0	0	1340	0	0	0	0	0	0	0	0	0	0	0	0	0	2658	
20000412	0	0	0	0	0	0	0	0	0	0	1320	0	0	0	0	0	0	0	0	0	0	0	0	0	2618	
20000413	0	0	0	0	0	0	0	0	0	0	47	1510	0	0	0	0	0	0	0	0	0	0	0	0	3598	
20000414	65	658	0	0	0	0	0	0	0	0	123	38	34	182	434	0	308	368	538	492	276	267	41	71	0	1138
20000415	533	200	0	0	0	0	0	0	0	0	72	0	117	472	234	567	439	267	251	84	70	0	0	14164		
20000416	0	313	0	0	0	0	0	0	0	0	73	77	43	0	1470	23	0	504	134	459	300	134	134	71	1	8292
20000417	0	0	0	0	0	0	0	0	0	0	53	42	1310	18	0	210	110	397	167	355	178	134	134	84	73	6743

Station	S3	S2	S308	S154	S71	S84	S127	S129	S131	S69E	S72	S133	S135	S191	I-6441	C-10	HMDUS	S4	S236	C12	C12A	C4A	FEC	Total	Inflow	sc-it	
Date	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	
20000416	0	0	0	0	0	73	81	0	0	1310	14	0	227	0	291	53	125	0	39	47	94	0	18	1	4705		
20000419	0	0	0	0	0	0	0	3	0	0	1650	41	0	215	0	263	47	4	0	0	94	0	0	0	4597		
20000420	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	65	45	0	0	0	0	0	0	0	3881	
20000421	0	0	0	0	0	0	0	0	77	0	59	0	0	0	0	0	0	0	0	45	0	94	0	0	0	3719	
20000422	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	36	0	49	0	0	0	2687	
20000423	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2478	
20000424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2325	
20000425	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2374	
20000426	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1459	
20000427	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1142	
20000428	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1192	
20000429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1345	
20000430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	444	
20000501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	559	
20000502	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	686	
20000503	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	407	
20000504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	323	
20000505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	256	
20000506	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	248	
20000507	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	
20000508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000509	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000510	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000512	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000517	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000518	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000520	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20000521	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Station	S1	S2	S308	S154	S71	SB4	\$127	S129	S131	S65E	S72	S133	S135	S191	L441	C-10	INDUS	S4	S236	C12	C12A	C4A	FEC	Total	Inflow	sc-n	
Date	cfs	cfs	cfs																								
Dickey	15018	15221	15526	15533	15533	15536	15641	15642	15643	15631	15634	15637	15638	15639	15640	15645	15628	15630	15644	15646	15647	15648	15627	0	0	1	
20000622	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	379
20000623	0	0	0	191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	726
20000624	0	0	366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	859
20000625	0	0	433	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	387
20000626	0	0	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	764
20000627	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	959
20000628	0	0	479	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1073
20000629	0	0	541	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1730
20000630	0	0	812	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	601
20000631	0	0	303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
20000601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
20000602	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296
20000603	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	623
20000604	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2216
20000605	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1601
20000606	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1638
20000607	0	0	813	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1505
20000608	0	0	896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1464
20000609	0	0	782	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1902
20000610	0	0	759	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1825
20000611	0	0	738	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1660
20000612	0	0	757	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	607
20000613	0	0	812	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139
20000614	0	0	803	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
20000615	0	0	306	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	548
20000616	0	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	742
20000617	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	605
20000618	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	778
20000619	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1291
20000620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20000621	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20000622	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20000623	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20000624	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Station	S3	S2	S30B	S154	S71	S84	S127	S129	S131	S65E	S72	S133	S135	S191	L8441	C-10	INDUS	S4	S236	C12	C12A	C4A	FEC	Total	Inflow		
Dike#	15018	15021	15626	15629	15633	15636	15641	15642	15643	15631	15634	15637	15638	15639	15640	15645	15628	15630	15644	15646	15647	15648	15627				
Date	crs	cls	crs	cls	crs	cls	crs	cls	cls	cls																	
20000625	0	0	211	0	46	0	0	0	0	376	0	0	0	0	117	0	0	0	0	0	0	0	0	0	0	1488	
20000626	0	0	338	0	60	0	0	0	0	0	10	0	0	0	0	182	0	0	0	0	0	0	0	0	0	1641	
20000627	66	0	466	0	77	0	0	0	0	0	0	0	0	0	0	2	0	325	0	111	0	0	0	0	0	2080	
20000628	0	0	254	0	106	1	0	0	0	0	62	0	0	0	45	0	329	0	67	0	0	0	0	0	0	1913	
20000629	0	0	286	0	53	3	0	0	0	0	24	0	0	0	0	0	279	0	39	0	6	0	0	0	0	1369	
20000630	0	0	316	0	0	4	0	0	0	0	62	0	0	0	54	0	101	0	0	78	16	0	0	0	0	1254	

Table B - 5. Daily Outflow from Lake Okeechobee - November 1999 to June 2000

Station Dbkey	S3/S354 15018 cfs	S2/S351 15021 cfs	S352 15068 cfs	S308 15626 cfs	S77 15635 cfs	INDUS 15628 cfs	L8.(C10A) 15640 cfs	Total Outflow ac-ft
11/1/99	3	0	0	1002	4430	9	0	10799
11/2/99	35	0	0	608	4440	7	0	10095
11/3/99	83	0	0	1702	4480	5	0	12437
11/4/99	65	0	0	1952	4490	9	0	12923
11/5/99	61	0	0	1964	4540	21	0	13063
11/6/99	48	0	0	2027	4470	56	3	13098
11/7/99	46	0	0	1888	4420	31	7	12678
11/8/99	61	0	0	1938	4440	1	8	12789
11/9/99	49	0	0	1936	4460	14	4	12819
11/10/99	73	0	0	1997	4750	35	4	13605
11/11/99	50	0	0	1974	4700	54	6	13456
11/12/99	32	0	27	2058	4590	35	8	13389
11/13/99	43	0	86	2052	4600	63	10	13595
11/14/99	31	0	86	2053	4430	51	3	13198
11/15/99	26	0	42	2102	4250	61	88	13030
11/16/99	26	41	264	2258	4400	58	260	14493
11/17/99	38	335	276	2006	4220	91	360	14531
11/18/99	38	294	253	1879	4620	57	347	14852
11/19/99	17	257	357	1329	4120	45	348	12839
11/20/99	64	256	349	860	3220	29	345	10161
11/21/99	49	226	428	582	2460	10	338	8117
11/22/99	47	219	545	750	1670	12	334	7095
11/23/99	35	235	598	609	973	66	338	5661
11/24/99	85	176	545	641	787	52	353	5234
11/25/99	79	0	250	424	770	4	359	3741
11/26/99	94	259	540	123	222	17	341	3166
11/27/99	85	120	590	840	1020	6	316	5904
11/28/99	90	120	579	1836	3290	0	339	12405
11/29/99	78	489	640	2147	4670	3	347	16609
11/30/99	259	418	601	1496	4130	9	341	14389
12/1/99	45	884	764	1257	3230	69	345	13079
12/2/99	27	858	779	926	2200	102	332	10362
12/3/99	0	731	852	868	1200	54	333	8009
12/4/99	23	710	790	587	768	9	338	6396
12/5/99	29	702	725	558	548	14	342	5788
12/6/99	0	499	718	697	469	44	338	5484
12/7/99	0	622	703	1111	906	38	336	7371
12/8/99	65	548	728	1790	2190	8	330	11224
12/9/99	53	446	714	1716	3160	33	336	12809
12/10/99	0	559	776	1391	2510	61	418	11336
12/11/99	38	630	817	877	2000	32	400	9509
12/12/99	10	625	729	696	1620	18	349	8027
12/13/99	13	610	706	810	1260	13	355	7472
12/14/99	48	454	677	791	907	9	329	6378
12/15/99	101	390	694	558	564	23	316	5248
12/16/99	0	484	663	128	471	0	323	4104
12/17/99	42	378	569	883	767	0	360	5949
12/18/99	42	165	537	1307	2310	8	298	9257

Station Dbkey	S3/S354 15018 cfs	S2/S351 15021 cfs	S352 15068 cfs	S308 15626 cfs	S77 15635 cfs	INDUS 15628 cfs	L8.(C10A) 15640 cfs	Total Outflow ac-ft
12/19/99	16	43	635	1051	3000	7	329	10078
12/20/99	0	322	571	771	2610	4	327	9135
12/21/99	0	243	514	610	2060	13	370	7557
12/22/99	20	102	622	596	1610	40	331	6587
12/23/99	64	495	721	332	1240	29	318	6345
12/24/99	35	362	676	135	896	3	342	4857
12/25/99	33	209	481	34	588	8	404	3485
12/26/99	20	259	498	100	506	9	457	3668
12/27/99	0	633	657	1260	1020	41	353	7863
12/28/99	0	375	660	1693	2380	44	334	10881
12/29/99	0	512	682	1329	3070	3	317	11728
12/30/99	221	658	698	1207	2620	28	311	11391
12/31/99	228	678	748	655	2060	33	294	9315
1/1/00	128	670	661	734	1600	4	302	8130
1/2/00	218	512	645	500	1230	7	308	6783
1/3/00	102	457	649	653	880	44	308	6135
1/4/00	205	453	515	294	765	57	363	5260
1/5/00	294	733	511	59	576	50	445	5292
1/6/00	142	701	777	122	151	47	362	4566
1/7/00	214	838	757	119	0	59	386	4707
1/8/00	235	481	695	103	0	2	400	3801
1/9/00	219	506	762	0	0	9	384	3729
1/10/00	250	812	724	389	0	13	399	5131
1/11/00	248	780	774	1197	680	5	403	8107
1/12/00	223	721	783	1551	2240	6	392	11733
1/13/00	243	636	757	1732	3070	6	395	13565
1/14/00	417	837	761	1119	2630	16	356	12171
1/15/00	246	808	748	935	2090	56	392	10463
1/16/00	351	691	773	614	1630	32	424	8956
1/17/00	350	688	780	836	1260	9	417	8607
1/18/00	313	796	785	493	900	68	436	7519
1/19/00	311	792	800	438	579	51	488	6861
1/20/00	209	848	793	122	486	54	385	5746
1/21/00	164	725	714	263	425	0	408	5353
1/22/00	213	512	672	216	372	113	481	5115
1/23/00	261	591	632	0	431	15	475	4770
1/24/00	63	118	132	0	104	8	371	1579
1/25/00	80	0	0	0	0	27	76	363
1/26/00	168	46	164	112	879	49	196	3201
1/27/00	24	96	161	209	734	37	237	2971
1/28/00	19	0	0	0	0	2	130	300
1/29/00	31	0	0	0	0	7	353	775
1/30/00	0	0	0	0	0	10	410	833
1/31/00	37	0	0	127	0	15	441	1230
2/1/00	36	0	46	332	0	6	434	1694
2/2/00	39	0	220	193	0	7	405	1714
2/3/00	64	0	220	199	0	6	246	1458
2/4/00	51	0	220	277	0	0	163	1410
2/5/00	49	0	222	295	0	0	139	1398

Station Dbkey	S3/S354 15018 cfs	S2/S351 15021 cfs	S352 15068 cfs	S308 15626 cfs	S77 15635 cfs	INDUS 15628 cfs	L8.(C10A) 15640 cfs	Total Outflow ac-ft
2/6/00	51	0	221	95	0	1	169	1065
2/7/00	349	153	377	505	0	14	155	3080
2/8/00	27	169	81	351	0	18	159	1597
2/9/00	27	0	0	0	64	81	66	472
2/10/00	45	0	0	0	216	1	137	792
2/11/00	32	0	0	28	236	14	108	829
2/12/00	15	0	0	138	332	6	164	1300
2/13/00	0	0	0	0	256	7	68	657
2/14/00	0	0	0	0	54	17	105	349
2/15/00	110	35	92	36	0	0	187	912
2/16/00	197	108	305	101	0	8	168	1759
2/17/00	175	101	286	126	550	62	173	2922
2/18/00	116	107	79	314	465	21	134	2452
2/19/00	153	206	212	263	0	35	191	2103
2/20/00	159	198	212	26	0	10	116	1429
2/21/00	185	196	211	239	0	8	157	1975
2/22/00	118	187	210	121	197	5	150	1960
2/23/00	175	213	287	284	587	25	110	3334
2/24/00	172	205	293	118	687	60	141	3324
2/25/00	172	194	292	0	376	5	101	2261
2/26/00	163	202	290	0	242	0	153	2083
2/27/00	139	194	289	0	207	0	157	1956
2/28/00	190	238	287	218	0	38	153	2229
2/29/00	257	241	284	606	0	54	208	3273
3/1/00	568	828	505	0	467	52	351	5496
3/2/00	405	644	446	0	717	35	494	5437
3/3/00	490	645	422	126	2	4	180	3707
3/4/00	411	586	319	264	0	74	8	3296
3/5/00	361	486	308	0	36	62	8	2501
3/6/00	427	687	313	196	106	31	14	3519
3/7/00	530	951	490	430	621	75	15	6173
3/8/00	444	1140	534	211	1180	181	11	7341
3/9/00	541	1140	638	339	862	210	10	7418
3/10/00	728	1120	654	156	867	176	10	7361
3/11/00	420	678	418	253	376	126	12	4528
3/12/00	42	41	146	0	77	18	8	659
3/13/00	381	301	392	0	12	38	174	2575
3/14/00	595	578	540	0	296	35	288	4626
3/15/00	620	625	512	0	762	64	391	5899
3/16/00	516	520	519	16	467	157	373	5094
3/17/00	324	247	446	128	310	103	380	3844
3/18/00	143	61	169	0	467	12	372	2428
3/19/00	10	0	0	0	205	13	358	1162
3/20/00	0	0	0	0	38	8	231	550
3/21/00	64	0	0	0	196	3	47	614
3/22/00	75	0	0	0	364	4	108	1092
3/23/00	372	0	0	0	773	9	165	2617
3/24/00	737	0	0	0	496	82	77	2761
3/25/00	538	0	0	0	890	63	146	3247

Station Dbkey	S3/S354 15018 cfs	S2/S351 15021 cfs	S352 15068 cfs	S308 15626 cfs	S77 15635 cfs	INDUS 15628 cfs	L8.(C10A) 15640 cfs	Total Outflow ac-ft
3/26/00	510	80	67	150	471	62	142	2940
3/27/00	213	176	102	101	710	50	117	2914
3/28/00	0	396	0	0	669	58	111	2448
3/29/00	574	820	0	0	724	77	62	4477
3/30/00	247	231	5	91	756	116	98	3063
3/31/00	537	629	58	141	808	63	0	4435
4/1/00	318	1090	40	52	878	2	0	4720
4/2/00	248	985	0	263	871	38	23	4816
4/3/00	536	988	0	273	886	89	57	5611
4/4/00	598	1170	0	322	1210	192	175	7273
4/5/00	738	986	0	422	1610	150	55	7857
4/6/00	875	1190	229	616	1570	113	90	9289
4/7/00	907	1320	566	469	1670	224	100	10425
4/8/00	641	1090	446	394	1280	154	135	8212
4/9/00	585	736	304	145	1310	112	54	6438
4/10/00	683	1020	317	491	903	183	65	7264
4/11/00	588	1260	422	709	595	261	24	7654
4/12/00	241	362	105	313	1020	233	45	4600
4/13/00	42	0	0	0	477	0	0	1029
4/14/00	0	0	0	0	0	0	0	0
4/15/00	0	0	0	0	0	0	0	0
4/16/00	53	0	0	0	0	0	0	105
4/17/00	33	0	0	0	0	0	0	65
4/18/00	16	0	0	0	0	0	0	32
4/19/00	80	0	0	0	126	0	0	409
4/20/00	41	0	0	292	710	100	0	2267
4/21/00	0	0	0	342	1160	124	68	3360
4/22/00	11	0	0	97	1240	43	79	2916
4/23/00	36	0	0	198	1060	42	72	2793
4/24/00	8	0	0	431	1170	115	67	3552
4/25/00	221	190	144	882	1950	165	176	7394
4/26/00	526	1250	484	1443	3620	134	190	15168
4/27/00	511	1760	624	2332	4420	186	192	19885
4/28/00	531	1550	694	2824	4330	265	131	20480
4/29/00	751	1710	754	3300	4560	290	184	22907
4/30/00	885	1570	758	2928	5980	253	161	24863
5/1/00	760	1640	726	2659	4800	294	168	21912
5/2/00	746	1750	728	2768	6130	255	136	24820
5/3/00	844	1040	831	2820	5960	263	104	23528
5/4/00	1110	968	931	2754	5530	253	155	23209
5/5/00	945	1470	912	2828	5510	236	307	24215
5/6/00	1210	2050	913	2682	5330	142	317	25079
5/7/00	1070	1930	834	2496	5240	149	266	23772
5/8/00	1030	1680	718	2866	5100	165	244	23411
5/9/00	393	0	132	2909	4990	132	233	17433
5/10/00	974	1000	532	3062	4830	139	161	21219
5/11/00	1380	1400	759	2921	4420	153	129	22140
5/12/00	1470	1810	797	2726	4490	122	143	22925
5/13/00	1510	1910	820	2676	4670	230	0	23437

Station Dbkey	S3/S354 15018 cfs	S2/S351 15021 cfs	S352 15068 cfs	S308 15626 cfs	S77 15635 cfs	INDUS 15628 cfs	L8.(C10A) 15640 cfs	Total Outflow ac-ft
5/14/00	1560	1830	786	2537	4450	246	0	22630
5/15/00	1350	1510	669	3394	4440	296	167	23457
5/16/00	1240	1370	736	3367	3330	272	0	20460
5/17/00	1260	1420	734	2907	2520	262	0	18056
5/18/00	1500	1700	740	1785	2510	295	0	16919
5/19/00	1860	1820	699	1657	2430	265	48	17413
5/20/00	1750	1620	710	1733	2420	294	125	17161
5/21/00	732	650	536	526	1560	251	117	8672
5/22/00	689	907	582	224	1110	290	110	7759
5/23/00	702	936	653	0	1240	312	28	7678
5/24/00	872	1340	728	0	1290	308	116	9231
5/25/00	925	1480	761	0	1390	374	30	9838
5/26/00	990	1510	771	0	1300	287	8	9651
5/27/00	993	1290	722	0	970	198	0	8277
5/28/00	910	1140	713	0	819	174	21	7492
5/29/00	854	1150	714	0	925	207	21	7678
5/30/00	831	1250	661	0	838	232	0	7561
5/31/00	634	1210	676	0	445	234	3	6352
6/1/00	927	1180	685	254	721	276	32	8083
6/2/00	1120	1390	688	178	1290	322	7	9907
6/3/00	1020	1310	681	114	1010	289	0	8775
6/4/00	977	1230	679	0	442	258	0	7113
6/5/00	966	1330	674	66	453	221	0	7359
6/6/00	923	1410	655	38	452	116	0	7129
6/7/00	303	1040	533	0	450	104	0	4820
6/8/00	0	1360	453	0	144	48	0	3977
6/9/00	0	1320	592	0	0	67	0	3925
6/10/00	23	946	580	0	503	125	92	4501
6/11/00	9	290	311	0	529	85	136	2698
6/12/00	27	334	296	0	15	23	74	1525
6/13/00	18	433	199	0	227	0	197	2130
6/14/00	0	934	503	0	390	0	238	4096
6/15/00	611	1320	613	0	909	123	177	7444
6/16/00	594	1330	630	0	988	230	45	7571
6/17/00	580	1240	614	0	937	211	26	7156
6/18/00	594	1190	586	0	715	183	8	6497
6/19/00	676	1250	475	92	386	240	0	6187
6/20/00	643	1270	375	156	583	233	0	6466
6/21/00	997	1450	385	100	916	236	36	8172
6/22/00	1030	1400	375	132	615	257	0	7555
6/23/00	968	1690	365	6	560	252	0	7619
6/24/00	733	1540	361	0	338	174	69	6377
6/25/00	0	808	348	0	0	6	0	2304
6/26/00	0	251	148	0	0	0	0	791
6/27/00	0	0	0	0	0	0	0	0
6/28/00	0	0	0	0	0	0	0	0
6/29/00	0	0	0	0	0	0	36	71
6/30/00	26	0	0	0	0	0	0	52

Table B - 6. Daily Outflow from the Everglades Agricultural Area - November 1999 to June 2000

Station	S3	S2	S352	S5AT	S6	S7	S8	S150	G136	G88	G200A	G328	WPB	Hills/NNR	Miami Canal cfs
DB Key	15018	15021	15068	15031	15034	15037	15040	15041	15195	15736	J0718	Canal cfs	Canal cfs	Canal cfs	Canal cfs
11/1/99	3	0	0	2080	1200	1160	1490	0	10	0	0	0	0	0	0
11/2/99	35	0	0	2400	1140	695	800	0	1	0	0	0	0	0	0
11/3/99	83	0	0	1210	734	476	450	0	0	1	0	0	0	0	0
11/4/99	65	0	0	354	311	272	536	0	0	1	0	0	0	0	0
11/5/99	61	0	0	0	288	286	504	0	0	2	0	0	0	0	0
11/6/99	48	0	0	0	0	369	10	464	0	0	0	0	0	0	0
11/7/99	46	0	0	0	0	344	12	452	0	0	0	0	0	0	0
11/8/99	61	0	0	0	0	318	14	428	0	0	0	0	0	0	0
11/9/99	49	0	0	0	0	0	9	405	0	0	0	0	0	0	0
11/10/99	73	0	0	0	0	0	14	219	0	0	0	0	0	0	0
11/11/99	50	0	0	0	0	0	18	0	0	0	0	0	0	0	50
11/12/99	32	0	27	169	0	14	0	0	0	0	0	0	0	0	32
11/13/99	43	0	86	0	0	12	0	0	0	0	0	0	86	0	43
11/14/99	31	0	86	0	0	15	0	0	0	0	0	0	86	0	31
11/15/99	26	0	42	247	0	28	0	0	0	0	0	0	0	0	26
11/16/99	26	41	264	271	0	21	0	0	0	0	0	0	0	20	26
11/17/99	38	335	276	269	0	17	0	1	0	0	0	0	7	318	39
11/18/99	38	294	253	278	200	20	0	1	0	0	0	0	0	74	39
11/19/99	17	257	367	254	200	18	0	2	0	0	0	0	103	39	19
11/20/99	64	256	349	268	240	11	11	0	2	0	0	0	81	5	0
11/21/99	49	226	428	269	190	10	0	3	0	0	0	0	159	26	52
11/22/99	47	219	545	404	340	28	0	3	0	0	0	0	141	0	50
11/23/99	35	235	598	520	398	23	0	3	0	0	0	0	78	0	38
11/24/99	85	176	545	526	362	8	0	0	0	0	0	0	0	88	88
11/25/99	79	0	250	0	0	0	0	0	0	0	0	0	0	250	0
11/26/99	94	259	540	522	352	8	0	0	0	0	0	0	0	18	95
11/27/99	85	120	590	519	352	26	0	0	0	0	0	0	71	0	85
11/28/99	90	120	579	525	362	18	0	0	0	0	0	0	0	0	90
11/29/99	78	489	640	521	296	13	0	0	0	0	0	0	0	247	608
11/30/99	259	418	601	513	316	17	0	0	0	0	0	0	0	88	259
12/1/99	45	884	764	517	264	12	0	0	0	0	0	0	0	0	46
12/2/99	27	858	779	500	271	11	0	0	0	0	0	0	0	0	27
12/3/99	0	731	852	506	260	7	0	0	0	0	0	0	0	0	0
												346	465		

Station	S3 DB Key	S2 15018	S352 15021	S5AT 15068	S6 cfs	S7 cfs	S8 cfs	S150 cfs	G136 cfs	G88 cfs	G200A cfs	G328 cfs	WPB cfs	HillsNWR cfs	Miami Canal cfs
12/4/99	23	710	790	539	292	7	0	0	0	0	0	0	251	412	23
12/5/99	29	702	725	492	336	2	0	0	1	0	0	0	233	364	30
12/6/99	0	499	718	532	392	10	0	0	2	0	0	0	186	97	2
12/7/99	0	622	703	327	196	20	0	0	0	0	0	0	376	406	0
12/8/99	65	548	728	518	256	18	0	0	0	0	0	0	210	274	65
12/9/99	53	446	714	522	277	10	0	0	0	0	0	0	192	160	53
12/10/99	0	559	776	531	278	6	0	0	0	0	0	0	245	275	0
12/11/99	38	630	817	530	326	11	0	0	0	0	0	0	287	293	38
12/12/99	10	625	729	520	356	20	0	0	0	0	0	0	209	249	10
12/13/99	13	610	706	506	354	22	0	0	0	0	0	0	200	234	13
12/14/99	48	454	677	507	395	94	0	0	0	0	0	0	170	0	48
12/15/99	101	390	694	512	371	20	0	0	0	0	0	0	182	0	101
12/16/99	0	484	663	252	112	12	0	0	0	0	0	0	411	360	0
12/17/99	42	378	569	526	422	9	0	0	0	0	0	0	43	0	42
12/18/99	42	165	537	734	423	14	0	0	0	0	0	0	0	0	42
12/19/99	16	43	635	743	418	10	0	0	0	0	0	0	0	0	16
12/20/99	0	322	571	246	127	22	0	0	0	0	0	0	325	173	0
12/21/99	0	243	514	751	266	30	0	0	0	0	0	0	0	0	0
12/22/99	20	102	622	688	418	24	0	0	0	0	0	0	0	0	20
12/23/99	64	495	721	710	379	32	0	0	0	0	0	0	11	84	64
12/24/99	35	362	676	642	365	13	0	0	0	0	0	0	34	0	35
12/25/99	33	209	481	0	0	3	0	0	0	0	0	0	481	206	33
12/26/99	20	259	498	592	384	4	0	0	0	0	0	0	0	0	20
12/27/99	0	633	657	532	396	7	0	0	0	0	0	0	125	230	0
12/28/99	0	375	660	636	383	18	0	0	0	0	0	0	24	0	0
12/29/99	0	512	682	718	381	16	0	0	0	0	0	0	0	115	0
12/30/99	221	658	698	530	376	6	0	0	0	0	0	0	0	168	276
12/31/99	228	678	748	544	358	9	0	0	0	0	0	0	0	204	311
1/1/00	128	670	661	536	363	0	7	0	0	0	0	0	0	125	307
1/2/00	218	512	645	525	376	2	0	0	0	0	0	0	0	120	134
1/3/00	102	457	649	533	414	0	9	0	0	0	0	0	0	116	43
1/4/00	205	453	515	0	300	0	12	0	0	0	0	0	0	515	153
1/5/00	294	733	511	564	390	0	0	0	0	0	0	0	0	343	193
1/6/00	142	701	777	509	338	0	9	0	0	0	0	0	0	0	268
															363
															133

Station DB Key	S3 cfs	S2 cfs	S352 cfs	S5AT cfs	S6 cfs	S7 cfs	S8 cfs	S150 cfs	G136 cfs	G88 cfs	G200A cfs	G328 cfs	WPB cfs	Hills/NW Canal cfs	Miami Canal cfs
1/7/00	214	838	757	529	370	0	0	0	0	0	24	0	228	468	190
1/8/00	235	481	695	529	364	0	0	0	0	0	0	0	166	117	235
1/9/00	219	506	762	516	324	1	8	0	0	0	0	0	246	181	212
1/10/00	250	812	724	514	326	0	9	0	0	0	0	0	210	486	241
1/11/00	248	780	774	532	346	1	0	0	0	0	0	0	242	433	248
1/12/00	223	721	783	508	338	0	2	0	0	0	0	0	275	383	221
1/13/00	243	636	757	499	316	0	0	0	0	0	0	0	258	320	243
1/14/00	417	837	761	521	317	70	0	0	0	0	0	0	240	450	417
1/15/00	246	808	748	487	271	0	0	0	0	0	0	0	261	537	246
1/16/00	351	691	773	529	300	0	0	0	0	0	0	0	244	391	351
1/17/00	350	688	780	519	300	4	0	0	0	0	0	0	261	384	350
1/18/00	313	796	785	508	261	0	0	0	0	0	0	0	277	535	313
1/19/00	311	792	800	503	294	0	0	0	0	0	0	0	297	498	311
1/20/00	209	848	793	328	240	1	0	0	0	0	0	0	465	607	209
1/21/00	164	725	714	0	345	0	0	0	0	0	0	0	714	380	0
1/22/00	213	512	672	0	0	0	0	0	0	0	0	0	672	512	212
1/23/00	261	591	632	0	0	0	0	0	0	0	0	0	632	591	249
1/24/00	63	118	132	857	880	0	26	3	0	0	0	0	0	0	0
1/25/00	80	0	0	744	420	458	0	14	0	0	0	0	0	0	0
1/26/00	168	46	164	0	0	0	0	0	0	0	0	0	0	164	46
1/27/00	24	96	161	0	331	0	0	0	0	0	0	0	161	0	24
1/28/00	19	0	0	646	374	0	1	0	0	0	0	0	0	0	18
1/29/00	31	0	0	0	0	2	0	9	0	0	0	0	0	0	12
1/30/00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/00	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
2/1/00	36	0	46	0	0	0	0	0	0	0	0	0	46	0	36
2/2/00	39	0	220	0	0	0	0	0	0	0	0	0	220	0	39
2/3/00	64	0	220	0	0	0	0	0	0	0	0	0	220	0	64
2/4/00	51	0	220	0	0	0	0	0	0	0	0	0	222	0	51
2/5/00	49	0	222	0	0	0	0	0	0	0	0	0	222	0	49
2/6/00	51	0	221	0	0	0	0	0	0	0	0	0	221	0	51
2/7/00	153	377	0	0	0	0	0	0	0	0	0	0	377	153	349
2/8/00	27	169	81	0	0	0	0	0	0	0	0	0	81	169	27
2/9/00	27	0	0	538	260	274	0	36	0	0	0	0	0	0	0

Station	S3	S2	S352	S5AT	S6	S7	S8	S150	G136	G88	G200A	G328	WPB	Hills/NNR	Miami Canal cfs
DB Key	15018	15021	15068	15031	15034	15037	15040	15041	15195	15196	15736	J0718	Canal cfs	Canal cfs	Canal cfs
2/10/00	45	0	0	695	540	565	0	162	0	0	239	0	0	0	0
2/11/00	32	0	0	0	0	380	399	0	0	0	0	0	0	0	32
2/12/00	15	0	0	0	0	0	0	1	0	0	0	0	0	0	14
2/13/00	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
2/14/00	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0
2/15/00	110	35	92	0	0	0	0	0	0	0	0	0	92	35	110
2/16/00	197	108	305	0	0	0	6	0	0	0	0	0	305	108	191
2/17/00	175	101	286	0	0	1	0	10	0	0	1	0	286	100	175
2/18/00	116	107	79	0	1	0	10	0	0	0	0	0	79	106	106
2/19/00	153	206	212	0	0	0	0	21	0	0	0	0	210	206	132
2/20/00	159	198	212	0	0	0	0	0	0	0	0	0	212	206	132
2/21/00	185	196	211	0	0	0	0	0	0	0	0	0	212	198	159
2/22/00	118	187	210	0	0	0	0	0	0	0	0	0	211	196	185
2/23/00	175	213	287	0	0	0	0	0	0	0	0	0	210	187	118
2/24/00	172	205	293	0	0	0	0	0	1	6	0	0	287	213	174
2/25/00	172	194	292	0	0	0	0	0	0	9	0	0	290	202	154
2/26/00	163	202	290	0	0	0	0	0	0	9	0	0	290	202	154
2/27/00	139	194	289	0	0	0	0	0	19	0	0	0	289	194	120
2/28/00	190	238	287	0	0	0	0	0	1	6	0	0	287	238	189
2/29/00	257	241	284	0	0	0	0	0	0	9	0	0	284	241	257
3/1/00	568	828	505	0	0	0	0	0	0	0	0	0	505	828	568
3/2/00	405	644	446	0	0	0	0	0	0	0	0	0	446	644	405
3/3/00	490	645	422	0	0	0	0	0	0	0	0	0	422	645	387
3/4/00	411	586	319	0	0	0	0	0	0	9	0	0	319	586	411
3/5/00	361	486	308	0	0	0	0	0	0	0	0	0	308	486	361
3/6/00	427	687	313	0	0	0	0	0	0	0	0	0	313	687	427
3/7/00	530	951	490	0	0	0	0	0	0	0	0	0	490	692	522
3/8/00	444	1140	534	0	0	0	0	0	0	8	0	0	336	914	422
3/9/00	541	1140	638	280	258	0	7	0	0	0	0	0	128	0	406
3/10/00	728	1120	654	266	232	0	26	0	0	0	0	0	238	0	464
3/11/00	420	678	418	0	1	0	18	27	0	0	0	0	418	650	402
3/12/00	42	41	146	-12	6	0	0	0	0	0	0	0	158	22	42
3/13/00	381	301	392	275	266	0	0	0	0	0	0	0	117	35	381
3/14/00	595	578	540	0	240	0	11	0	0	0	0	0	540	338	584

Station DB Key	S3 cfs	S2 cfs	S352 cfs	S5AT cfs	S6 cfs	S7 cfs	S8 cfs	S150 cfs	G136 cfs	G38 cfs	G200A cfs	G328 cfs	WPB cfs	Hills/MNR cfs	Miami Canal cfs
3/15/00	620	625	512	146	107	0	13	0	0	0	0	0	366	518	607
3/16/00	516	520	519	278	238	0	2	0	0	158	0	241	282	355	
3/17/00	324	247	446	282	214	0	0	0	0	165	0	164	33	159	
3/18/00	143	61	169	0	0	1	0	0	0	0	0	0	169	60	143
3/19/00	10	0	0	86	0	60	2	300	0	0	0	0	0	0	8
3/20/00	0	0	0	3230	2467	530	79	501	0	0	0	0	0	0	0
3/21/00	64	0	0	2950	1600	595	49	241	0	0	0	0	0	0	15
3/22/00	75	0	0	1140	916	0	0	197	0	0	0	0	0	0	75
3/23/00	372	0	0	0	0	0	0	0	0	0	0	0	0	0	256
3/24/00	737	0	0	0	0	10	0	0	177	0	0	0	0	0	0
3/25/00	538	0	0	0	0	0	0	0	325	0	0	0	0	0	479
3/26/00	510	80	67	0	0	0	0	0	276	0	0	0	67	0	510
3/27/00	213	176	102	28	0	0	2	372	0	0	0	0	74	0	211
3/28/00	0	396	0	1	0	0	0	0	482	0	0	0	0	0	0
3/29/00	574	820	0	66	0	0	0	0	549	0	0	0	0	0	574
3/30/00	247	231	5	616	0	0	0	0	515	0	0	43	0	0	204
3/31/00	537	629	58	0	0	0	0	0	433	0	0	258	0	58	279
4/1/00	318	1090	40	0	0	0	0	37	555	0	0	0	40	535	121
4/2/00	248	985	0	1	0	0	0	14	548	0	0	0	0	437	234
4/3/00	536	988	0	0	0	0	0	7	509	0	0	0	0	479	529
4/4/00	598	1170	0	0	0	0	0	0	516	0	0	0	0	654	598
4/5/00	738	986	0	0	0	0	0	0	522	0	0	0	0	0	654
4/6/00	875	1190	229	172	0	0	0	25	501	0	0	259	0	57	689
4/7/00	907	1320	566	252	0	0	28	509	0	0	0	141	0	314	811
4/8/00	641	1090	446	0	0	0	47	545	0	0	0	0	446	545	594
4/9/00	585	736	304	0	0	0	15	530	0	0	0	0	304	206	570
4/10/00	683	1020	317	0	0	0	60	511	0	0	0	0	317	509	623
4/11/00	588	1260	422	0	0	0	53	543	0	0	0	0	422	717	535
4/12/00	241	362	105	0	0	0	20	503	0	0	0	0	105	0	21
4/13/00	42	0	0	846	0	0	11	366	0	0	0	0	0	0	0
4/14/00	0	0	0	2220	1820	1597	1320	396	0	0	0	0	311	0	0
4/15/00	0	0	0	3280	2820	2392	2300	271	0	0	0	0	459	419	0
4/16/00	53	0	0	3250	2600	2150	2200	277	9	0	0	0	171	339	0
4/17/00	33	0	0	2880	2280	2120	2390	279	43	0	0	0	441	338	0

Station	S3	S2	S352	S5AT	S6	S7	S8	S150	G136	G88	G200A	G328	WPB	Hills/NJR	Miami Canal cts
DB Key	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	Canal cfs	Canal cfs	Canal cfs
4/18/00	16	0	0	2120	1450	995	1800	397	30	0	390	260	0	0	0
4/19/00	80	0	0	461	470	500	573	167	20	0	0	166	0	0	0
4/20/00	41	0	0	0	0	0	1	263	12	0	0	102	0	0	51
4/21/00	0	0	0	0	0	0	0	507	6	0	0	0	0	0	6
4/22/00	11	0	0	0	0	0	0	0	172	2	0	0	0	0	13
4/23/00	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36
4/24/00	8	0	0	0	0	0	0	27	0	0	0	0	0	0	0
4/25/00	221	190	144	0	0	0	0	0	0	0	0	211	0	144	190
4/26/00	526	1250	484	271	0	530	0	0	0	0	0	515	0	213	720
4/27/00	511	1760	624	311	0	575	0	0	0	0	0	515	0	313	1185
4/28/00	531	1550	694	575	0	550	0	40	0	0	0	475	0	119	960
4/29/00	751	1710	754	595	0	560	0	0	0	0	0	514	0	159	1150
4/30/00	885	1570	758	604	0	585	0	0	0	0	0	514	0	154	985
5/1/00	760	1640	726	582	0	580	17	0	0	0	0	514	0	144	1060
5/2/00	746	1750	728	592	0	560	61	0	0	0	0	420	0	136	1190
5/3/00	844	1040	831	520	0	340	60	0	0	0	0	498	0	311	700
5/4/00	1110	968	931	430	12	0	47	0	0	0	0	417	0	501	956
5/5/00	945	1470	912	299	0	80	112	0	0	0	0	563	0	613	1390
5/6/00	1210	2050	913	381	0	610	49	0	0	0	0	34	515	0	532
5/7/00	1070	1930	834	430	0	635	43	0	0	0	0	-60	516	0	404
5/8/00	1030	1680	718	442	0	605	18	0	0	0	0	-9	515	0	276
5/9/00	393	0	132	492	360	590	13	0	0	-5	492	0	0	0	0
5/10/00	974	1000	532	567	29	378	349	0	0	90	514	0	0	593	111
5/11/00	1380	1400	759	535	0	575	600	0	0	-18	514	0	0	224	825
5/12/00	1470	1810	797	536	358	615	673	0	0	104	515	0	0	261	837
5/13/00	1510	1910	820	533	298	600	663	0	0	103	515	0	0	287	1012
5/14/00	1560	1830	786	546	332	565	694	0	0	94	515	0	0	240	933
5/15/00	1350	1510	669	542	434	625	623	0	0	56	515	0	0	127	451
5/16/00	1240	1370	736	558	349	585	551	0	0	10	513	0	0	178	436
5/17/00	1260	1420	734	560	310	580	581	0	0	90	604	0	0	174	530
5/18/00	1500	1700	740	544	278	585	595	0	0	104	514	0	0	196	837
5/19/00	1860	1820	699	548	312	590	579	0	0	-77	514	0	0	151	918
5/20/00	1750	1620	710	516	336	196	623	0	0	-85	156	0	0	194	1088
5/21/00	732	650	536	191	46	90	292	0	0	-168	0	0	0	345	514

Station	S3	S2	S352	S5AT	S6	S7	S8	S150	G136	G88	G200A	G328	WPB	Hills/MNR	Miami
DB Key	15018	15021	15068	15031	15034	15037	15040	15041	15195	15196	J0718	Canal	Canal	Canal	cfs
5/22/00	689	907	582	0	0	51	0	0	115	0	0	582	907	638	
5/23/00	702	936	653	0	12	0	33	0	50	0	0	653	924	669	
5/24/00	872	1340	728	0	0	0	20	0	0	0	0	728	1340	852	
5/25/00	925	1480	761	0	0	0	22	0	0	0	0	761	1480	903	
5/26/00	990	1510	771	0	0	0	65	0	0	0	0	771	1510	925	
5/27/00	993	1290	722	0	0	0	77	0	0	0	0	722	1290	916	
5/28/00	910	1140	713	0	0	0	40	0	0	0	0	713	1140	870	
5/29/00	854	1150	714	0	0	1	0	0	0	0	0	714	1150	853	
5/30/00	831	1250	661	0	0	0	4	0	0	0	0	661	1250	827	
5/31/00	634	1210	676	0	0	0	28	0	0	0	0	676	1210	606	
6/1/00	927	1180	685	0	0	0	30	0	0	-134	0	0	685	1180	897
6/2/00	1120	1390	688	0	0	0	13	0	0	2	0	0	688	1390	1107
6/3/00	1020	1310	681	0	0	0	8	0	0	20	0	0	681	1310	1012
6/4/00	977	1230	679	0	0	0	16	0	0	-96	0	0	679	1230	961
6/5/00	966	1330	674	204	177	0	186	0	0	-41	0	0	470	1153	780
6/6/00	923	1410	655	268	187	0	193	0	0	28	0	0	387	1223	730
6/7/00	303	1040	533	189	120	0	0	0	0	-99	0	0	344	920	303
6/8/00	0	1360	453	275	146	0	4	0	0	-113	0	0	178	1214	0
6/9/00	0	1320	592	270	128	0	7	0	0	-67	0	0	322	1192	0
6/10/00	23	946	580	2	0	0	16	0	0	-54	0	0	578	946	7
6/11/00	9	290	311	0	0	0	6	0	0	-105	0	0	311	290	4
6/12/00	27	334	296	0	0	0	12	0	0	-105	0	0	296	334	15
6/13/00	18	433	199	0	0	0	25	0	0	-89	0	0	199	433	0
6/14/00	0	934	503	0	0	0	11	0	0	-89	0	0	503	934	0
6/15/00	611	1320	613	0	0	0	7	0	0	-80	0	0	613	1320	604
6/16/00	594	1330	630	0	0	0	5	0	0	-40	0	0	630	1330	589
6/17/00	580	1240	614	0	0	0	5	0	0	0	0	0	614	1240	576
6/18/00	594	1190	586	0	0	0	4	0	0	0	0	0	586	1190	590
6/19/00	676	1250	475	0	0	0	31	0	0	0	0	0	475	1250	645
6/20/00	643	1270	375	276	247	0	17	0	0	0	0	0	99	1023	626
6/21/00	997	1450	385	269	207	0	22	0	0	0	0	0	116	1243	975
6/22/00	1030	1400	375	268	206	0	31	0	0	1	0	0	107	1194	998
6/23/00	968	1690	365	254	180	1	0	0	0	0	0	0	111	1510	967
6/24/00	733	1540	361	0	16	0	0	0	0	0	0	0	361	1540	717

Station	S3	S2	S352	S5AT	S6	S7	S8	S150	G136	G88	G200A	G328	WPB	Hills/NNR	Miami Canal cfs
DB Key	15018	15021	15068	15031	15034	15037	15040	15041	15196	15736	J0718	Canal cfs	Canal cfs	Canal cfs	Canal cfs
6/25/00	0	808	348	0	0	0	164	0	0	0	94	0	348	808	0
6/26/00	0	251	148	650	770	243	912	390	0	0	409	0	0	0	0
6/27/00	0	0	0	272	351	545	1820	37	0	-88	312	0	0	0	0
6/28/00	0	0	0	0	211	81	1750	131	35	-108	0	0	0	0	0
6/29/00	0	0	0	0	341	0	814	0	33	-92	0	0	0	0	0
6/30/00	26	0	0	33	256	0	1380	315	22	-112	0	0	0	0	0

Table B - 7. Daily Flow (cfs) at S80_T (St. Lucie Canal at Tidewater) - November 1999 to June 2000.

Day	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00
1	2302	802	805	35	35	35	2180	35
2	1146	597	798	35	35	35	2350	35
3	2485	428	640	35	35	35	2500	35
4	2389	410	149	35	35	35	2450	35
5	2497	379	35	35	35	35	2510	35
6	2552	212	35	35	35	35	2520	35
7	2562	947	35	35	35	35	2520	35
8	2557	1493	35	35	35	35	2510	35
9	2562	1438	35	35	35	35	2450	35
10	2651	1111	35	35	35	35	2490	35
11	2597	850	872	35	35	35	2410	35
12	2500	665	1520	35	35	105	2420	35
13	2410	523	1500	35	255	324	2370	35
14	2458	423	1120	35	270	705	2400	35
15	2495	128	785	35	92	760	2240	35
16	2394	35	658	35	35	1320	1650	35
17	2028	765	506	35	35	736	1470	35
18	1655	1409	455	35	35	594	1330	35
19	1228	1365	166	35	233	508	1330	35
20	955	1019	35	35	303	604	1330	35
21	749	728	35	35	84	470	465	35
22	543	677	35	35	125	356	35	35
23	486	542	35	35	35	344	35	35
24	457	476	66	35	109	354	35	35
25	195	232	140	35	109	705	35	35
26	35	128	55	35	35	1850	35	35
27	1111	601	35	35	35	2510	35	35
28	1806	1412	35	35	56	2540	35	35
29	1772	1469	279	35	85	2570	35	35
30	1200	1145	253		84	2310	35	35
31		881	64		35		35	

Table B - 8. Daily Flow (cfs) at S79_S (Caloosahatchee River at Tidewater) - November 1999 to June 2000.

Day	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00
1	5996	3092	2225	264	0	829	4608	302
2	5740	2608	1389	0	0	760	4984	280
3	6422	916	957	237	0	723	4462	2
4	5680	980	377	41	192	747	4812	0
5	5486	920	544	0	294	854	4984	0
6	5368	193	1116	0	300	801	5010	0
7	5646	1148	1184	0	306	730	4642	0
8	4596	2082	272	0	288	685	4784	228
9	5261	2923	0	0	282	850	4982	390
10	4815	2266	0	0	284	368	4802	0
11	5123	2240	532	0	272	0	3667	0
12	4921	1607	2725	0	290	0	4860	0
13	4135	1246	2616	0	332	0	4556	0
14	4069	1191	3221	0	330	2056	4822	0
15	4967	637	1966	0	316	1436	4432	0
16	4493	723	1610	0	278	1904	3560	0
17	4210	1025	1150	0	298	1242	2348	0
18	4946	2901	350	0	322	410	2152	0
19	4213	3478	272	0	358	725	2352	0
20	3346	3468	112	0	568	583	2016	0
21	3014	2501	0	0	608	426	1246	0
22	1721	1944	0	0	314	486	368	0
23	708	958	0	0	340	548	402	0
24	353	1066	466	0	278	484	496	0
25	379	759	660	0	298	1204	310	1812
26	590	835	0	0	276	3263	284	2746
27	1422	1062	474	0	537	4529	297	3244
28	3444	2262	425	0	955	4597	274	2536
29	5025	3356	705	0	845	4637	301	1964
30	4494	2660	284		736	4707	614	1250
31		2470	126		788		308	